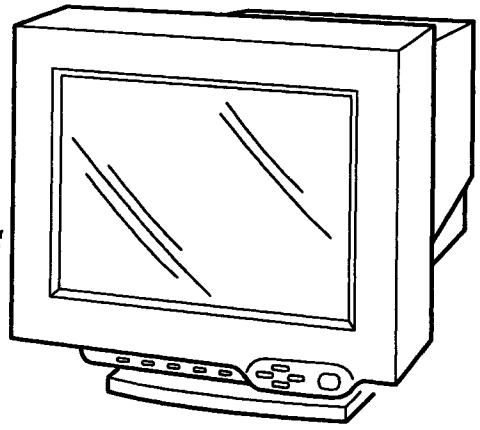
CPD-300SFT/300SFT5

SERVICE MANUAL

Multiscan 300*sf*



CPD-300SFT

US Model

Canadian Model

ES Model

Chassis No. SCC-J37C-A

AUS Model

Chassis No. SCC-J49K-A

CPD-300SFT5

AEP Model

UK Model

Chassis No. SCC-J50K-A

N-2 CHASSIS

SPECIFICATIONS

Picture tube	0.30 mm aperture grille pitch 20 inches measured diagonally 90-degree deflection
Viewable image size	Approx. 388 × 292 mm (w/h) (15 3/8 × 11 1/2 inches) 19.1" viewing image
Resolution	Horizontal: Max. 1280 dots Vertical: Max. 1024 lines
Standard image area	Approx. 373 × 280 mm (w/h) (14 3/4 × 11 1/8 inches) or Approx. 350 × 280 mm (w/h) (13 7/8 × 11 1/8 inches)
Deflection frequency	Horizontal: 30 to 86 kHz Vertical: 48 to 150 Hz
AC input voltage/current	100 to 120 V, 50/60 Hz; 1.7 A 220 to 240 V, 50 – 60 Hz, 1.2 A
Power consumption	Max. 150 W
Dimensions	Approx. 472 × 493.5 × 501 mm (w/h/d) (18 5/8 × 19 1/2 × 19 3/4 inches)
Mass	Approx. 29.5 kg (65 lb 1 oz)

Design and specifications are subject to change without notice.

TRINITRON® COLOR COMPUTER DISPLAY

SONY®

MICROFILM

DIAGNOSIS

Failure	Power Saving LED	Power LED
HV failure	Off	Blink Amber
Horizontal/Vertical deflection failure, thermal protector	Blink Amber	Off
ABL protector	Blink Amber	Blink Amber
Aging/Self Test	Off	Blink Amber, Off, Green and Off

Aging Mode: Raster aging — During Power Save, press "OPTION" Key for longer than 2 seconds.
Self Test: OSD color-bar indication — During Power Save, press "CONTRAST+" Key for longer than 2 seconds.

TIMING SPECIFICATION

PRIMARY MODE MODE AT PRODUCTION	MODE1	MODE2	MODE3	MODE4	MODE5	MODE6	MODE7	MODE8	PRIMARY MODE9	MODE10
RESOLUTION	640 X 480	720 X 400	640 X 480	832 X 624	800 X 600	1024 X 768	1280 X 1024	1024 X 768	1152 X 870	1280 X 1024
CLOCK	25.175 MHz	28.322 MHz	36.000 MHz	57.285 MHz	56.250 MHz	80.000 MHz	108.500 MHz	94.500 MHz	100.000 MHz	135.000 MHz
— HORIZONTAL —										
H-FREQ	31 469 kHz	31.469 kHz	43.269 kHz	49.727 kHz	53.674 kHz	60.241 kHz	63.974 kHz	68.677 kHz	68.681 kHz	79.976 kHz
	usec	usec	usec	usec	usec	usec	usec	usec	usec	usec
H. TOTAL	31.778	31.777	23.111	20.110	18.631	16.600	15.631	14.561	14.560	12.504
H. BLK	6.356	6.355	5.333	5.586	4.409	3.800	3.834	3.725	3.040	3.022
H. FP	0.636	0.636	1.556	0.559	0.569	0.550	0.590	0.508	0.320	0.119
H. SYNC	3.813	3.813	1.556	1.117	1.138	1.200	1.180	1.016	1.280	1.067
H. BP	1.907	1.907	2.222	3.910	2.702	2.050	2.065	2.201	1.440	1.837
H. ACTIV	25.422	25.422	17.778	14.524	14.222	12.800	11.797	10.836	11.520	9.481
— VERTICAL —										
V FREQ	59.940 Hz	70.087 Hz	85.008 Hz	74.553 Hz	85.061 Hz	74.927 Hz	60.013 Hz	84.997 Hz	75.062 Hz	75.025 Hz
	lines	lines	lines	lines	lines	lines	lines	lines	lines	lines
V. TOTAL	525	449	509	667	631	804	1066	808	915	1066
V. BLK	45	49	29	43	31	36	42	40	45	42
V. FP	10	13	1	3	1	3	1	1	3	1
V. SYNC	2	2	3	3	3	3	3	3	3	3
V. BP	33	34	25	37	27	30	38	36	39	38
V. ACTIV	480	400	480	624	600	768	1024	768	870	1024
— SYNC —										
INT(G)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
EXT(H/V)/POLARITY	YES N/N	YES N/P	YES N/N	YES N/N	YES P/P	YES N/N	YES P/P	YES P/P	YES N/N	YES P/P
EXT(CS) /POLARITY	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
INT/NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT	NON INT

96.7.30 VER

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

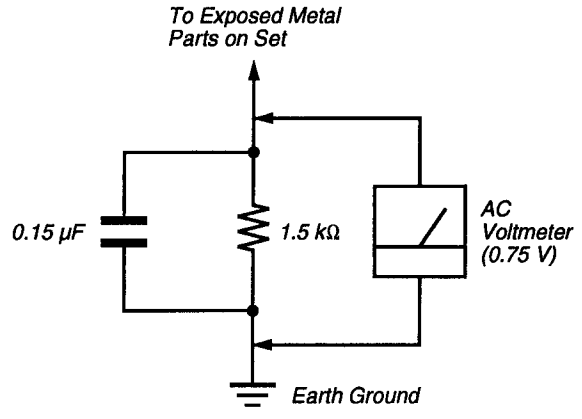


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!
NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!
NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!
LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.

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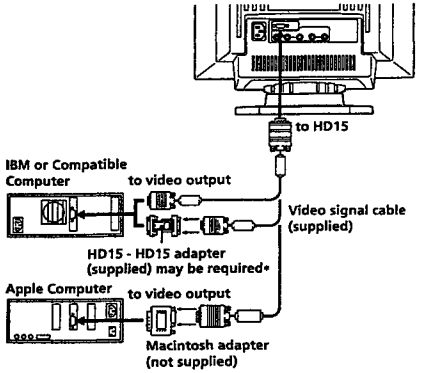
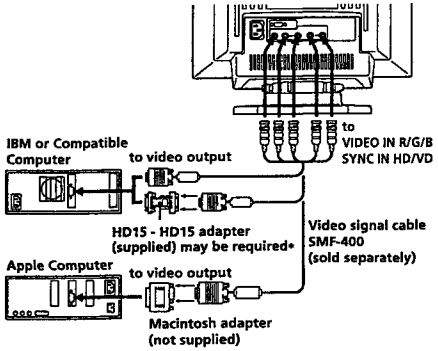
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

Getting Started

This monitor will sync with any IBM or compatible system equipped with VGA or greater graphics capability. Although this monitor will sync to other platforms running at horizontal frequencies between 30 and 86 kHz, including Macintosh and Power Macintosh system, a cable adapter is required. Please consult your dealer for advice on which adapter is suitable for your needs.

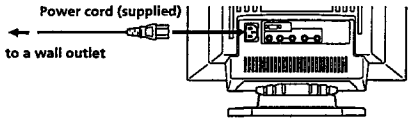
Step 1: With the computer switched off, attach the video signal cable to the monitor (HD15/5 BNC's) and attach the other end to the video card.




to VIDEO IN R/G/B SYNC IN HD/VD
IBM or Compatible Computer
to video output
HD15 - HD15 adapter (supplied) may be required*
Video signal cable SMF-400 (sold separately)
Apple Computer
to video output
Macintosh adapter (not supplied)

*** For the customers using IBM PC or IBM compatible system which is not compatible with DDC2AB and DDC2B+**
This monitor uses a No.9 pin in the video signal connector for DDC2AB and DDC2B+ compatibility.
Some PC systems which are not compatible with either DDC2AB or DDC2B+ may not accept the No.9 pin. If you are not sure whether your PC system accepts the No.9 pin or not, use the HD15 (Female) - HD15 (Male without the No.9 pin) adapter (supplied). Make sure that the male side (without the No.9 pin) is connected to the computer.

Step 2: With the monitor switched off, attach the power cord to the monitor and the other end to the power outlet.



Step 3: Turn on the monitor and computer.

Step 4: Switch the input connector according to the adjustment procedure on page 9.

Step 5: If necessary, adjust the user controls according to your personal preference.

For the customers using the Windows®4) 95
Even if you select SONY for the maker on the device select screen, the model name (CPD-300SFT5) may not appear. In this case, select the DDC standard monitor.

The installation of your monitor is complete. Enjoy your monitor.

Notice
To comply with the limits of FCC Class B and IC Class B for digital device, please attach the supplied video signal cable for HD15 input or SMF-400 (sold separately) for BNC input. Furthermore, each cable has ferrite cores on it.

SECTION 1
GENERAL

Using Your Monitor

Preset and User Modes

The Multiscan 300sf has factory preset modes for the 10 most popular industry standards for true "plug and play" capability.
For less common modes, the Multiscan 300sf's Digital Multiscan Technology will perform all of the complex adjustments necessary to ensure a high quality picture for any timing between 30 and 86 kHz.

However, due to the wide variety of video boards on the market, it may be necessary for the user to fine tune the vertical/horizontal size and centering.

Note: For Windows users, check your video board manual or the utility program which comes with your graphic board and select the highest available refresh rate to maximize monitor performance.

Recommended horizontal timing conditions
Horizontal sync width should be: >4.8% of total horizontal time.
Horizontal blanking width should be: >3.0 µsec.

No.	Resolution (dots × lines)	Horizontal Frequency	Vertical Frequency	Graphics Mode
1	640 × 480	31.5 kHz	60 Hz	VGA Graphic 1)
2	720 × 400	31.5 kHz	70 Hz	VGA Text 1)
3	640 × 480	43.3 kHz	85 Hz	VESA 2)
4	832 × 624	49.7 kHz	75 Hz	Macintosh 16" Color 3)
5	800 × 600	53.7 kHz	85 Hz	VESA 2)
6	1024 × 768	60.0 kHz	75 Hz	Macintosh 19" Color 3)
7	1280 × 1024	64.0 kHz	60 Hz	VESA 2)
8	1024 × 768	68.7 kHz	85 Hz	VESA 2)
9	1152 × 870	68.7 kHz	75 Hz	Macintosh 21" Color 3)
10	1280 × 1024	80.0 kHz	75 Hz	VESA 2)

1) VGA is a trademark of IBM Corporation.
2) VESA is a trademark of Video Electronics Standard Association.
3) Macintosh is a trademark of Apple Computer Inc.
4) Windows® is a registered trademark of Microsoft. Corporation in the United States and other countries.

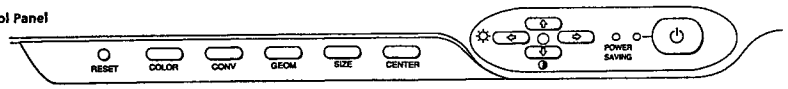
EN

Adjustments

When one of the preset-type signals is input, no picture adjustment is necessary.
You can, however, adjust the picture to your preferences by the following procedure described below.
You can adjust the all items on the OSD (On Screen Display).
The item to be adjusted is indicated in white on the OSD.

- Before adjusting the items, turn on the unit and feed the video signal from the connected computer/work station.
- Adjustments will be stored automatically.

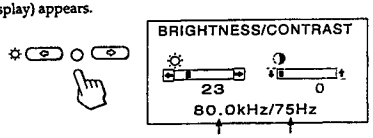
Control Panel



Adjusting the Picture Brightness

The adjustment data becomes the common setting for all input signals.

1 Press the ☼ ←/→ button.
The "BRIGHTNESS/CONTRAST" OSD (On Screen Display) appears.



2 Press the ☼ ←/→ buttons to adjust picture brightness.
←... for less brightness
→... for more brightness

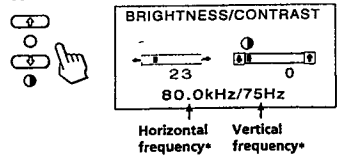
The "BRIGHTNESS/CONTRAST" OSD disappears 3 seconds after you release the buttons.

To reset, press RESET button while the OSD is on.

Adjusting the Picture Contrast

The adjustment data becomes the common setting for all input signals.

1 Press the ◑ ↑/↓ button.
The "BRIGHTNESS/CONTRAST" OSD (On Screen Display) appears.



2 Press the ◑ ↑/↓ buttons to adjust picture contrast.
↑... for more contrast
↓... for less contrast

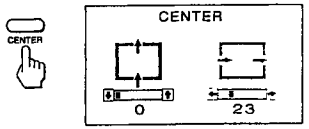
The "BRIGHTNESS/CONTRAST" OSD disappears 3 seconds after you release the buttons.

To reset, press RESET button while the OSD is on.

Adjusting the Picture Centering

The adjustment data becomes the individual setting for each input signal received.

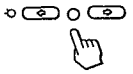
1 Press the CENTER button.
The "CENTER" OSD (On Screen Display) appears.



2 For vertical picture adjustment
Press the ◑ ↑/↓ buttons.

↑... to move up
↓... to move down

For horizontal picture adjustment
Press the ☼ ←/→ buttons.



←... to move left
→... to move right

To erase the "CENTER" OSD, press the CENTER button again.
The "CENTER" OSD automatically disappears 10 seconds after you release the buttons.

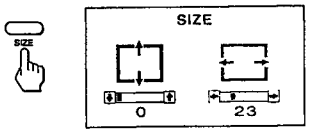
To reset, press RESET button while the OSD is on.

* The horizontal and vertical frequencies for each input signal received appear on the "BRIGHTNESS/CONTRAST" OSD.

Adjusting the Picture Size

The adjustment data becomes the individual setting for each input signal received.

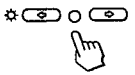
1 Press the SIZE button.
The "SIZE" OSD (On Screen Display) appears.



2 For vertical picture adjustment
Press the ◑ ↑/↓ buttons.

↑... to enlarge
↓... to diminish

For horizontal picture adjustment
Press the ☼ ←/→ buttons.



←... to diminish
→... to enlarge

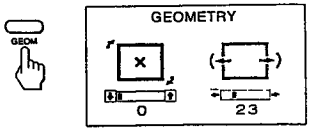
To erase the "SIZE" OSD, press the SIZE button again.
The "SIZE" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press RESET button while the OSD is on.

Adjusting the Picture Rotation

The adjustment data becomes the common setting for all input signals.

1 Press the GEOM button.
The "GEOMETRY" OSD (On Screen Display) appears.



2 Press the ◑ ↑/↓ buttons.

↑... to rotate clockwise
↓... to rotate counterclockwise

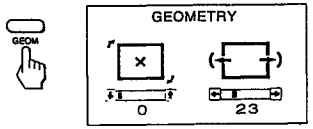
To erase the "GEOMETRY" OSD, press the GEOM button again.
The "GEOMETRY" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press RESET button while the OSD is on.

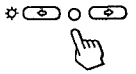
Adjusting the Pincushion

The adjustment data becomes the individual setting for each input signal received.

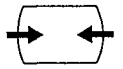
1 Press the GEOM button.
The "GEOMETRY" OSD (On Screen Display) appears.



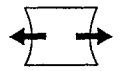
2 Press the ☼ ←/→ buttons.



←... to diminish the picture sides



→... to expand the picture sides



To erase the "GEOMETRY" OSD, press the GEOM button again.
The "GEOMETRY" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press RESET button while the OSD is on.

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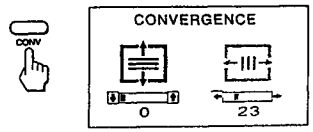
Adjusting the Convergence

The adjustment data becomes the common setting for all input signals.

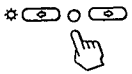
1 Press the CONV button.
The "CONVERGENCE" OSD (On Screen Display) appears.



2 **For vertical adjustment**
Press the ◑ ↑/↓ buttons.

↑ . . . to move Red up and Blue down
↓ . . . to move Red down and Blue up

For horizontal adjustment
Press the ☼ ←/→ buttons.



← . . . to move Red to the left and Blue to the right
→ . . . to move Red to the right and Blue to the left

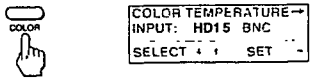
To erase the "CONVERGENCE" OSD, press the CONV button again.
The "CONVERGENCE" OSD automatically disappears 10 seconds after you release the buttons.

To reset, press RESET button while the OSD is on.

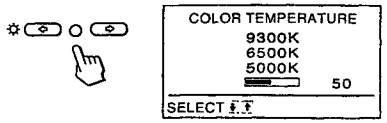
Setteing the Color Temperature

The selected color temperature becomes the common setting for all input signals. (The factory presetting is 9300K.)

1 Press the COLOR button.
The "COLOR TEMPERATURE/INPUT" selection OSD (On Screen Display) appears.



2 Press the ☼ → button.
The "COLOR TEMPERATURE" OSD appears.

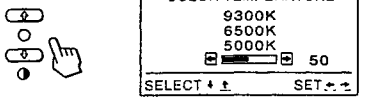


3 Adjust with the ◑ ↑/↓ and ☼ ←/→ buttons.

To select 9300K, 6500K, or 5000K
Press ◑ ↑/↓ buttons.

To obtain the desired color temperature between 5000K and 9300K

1 Press the ◑ ↑/↓ buttons to select user mode (▬).



2 Press the ☼ ←/→ buttons.

← . . . for lower temperature (to be reddish)
→ . . . for higher temperature (to be blueish)

Your most recent adjusted color temperature will be recalled by pressing the ◑ ↑/↓ button.
The factory presetting is 6500K for the user adjustable mode of color temperature.

To erase the "COLOR TEMPERATURE" OSD, press the COLOR button again.
The OSD automatically disappears 30 seconds after you release the buttons.

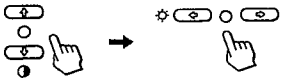
To reset, press RESET button while the OSD is on.

Switching the Input Connector

As the monitor has two sets of input connectors, you can switch between two input video signals. It is necessary to select the connector type (HD15/5 BNC's) correctly according to the connection.

1 Press the COLOR button.
The "COLOR TEMPERATURE/INPUT" selection OSD (On Screen Display) appears.

2 Press the ◑ ↓/↑ buttons to select "INPUT" and then press the ☼ ←/→ button to select "HD15" or "BNC."



When you switch between input sources, the monitor screen is muted for a moment (Mute) then the signal through the selected input is displayed. If the selected input do not receive any video signals, the monitor automatically returns to the other input after Mute and the "COLOR TEMPERATURE/INPUT" selection OSD appears.

To erase the "COLOR TEMPERATURE/INPUT" selection OSD, press the COLOR button again.
The OSD automatically disappears 30 seconds after you release the buttons.

If two computers are connected to the monitor (one to each input), when one of the computers is turned on or restarted, or the monitor goes into power saving mode, the monitor may switch to the other input because the signal is temporarily interrupted. Select the input which you use, following the above steps.

Resetting the Adjustment Data to Factory-preset Levels

To reset an adjustment item

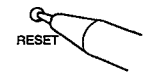
Press the button of the adjustment item you want to reset, and then press the RESET button before the OSD (On Screen Display) disappears.

To reset the brightness, contrast, size, center, and pincushion at once (for the received signal)

Press the RESET button with something like a pen for 1 second when no OSD is shown.

To reset all adjustment data to factory-preset levels

Press and hold the RESET button for more than 2 seconds. All adjustment data including the brightness and contrast are reset to factory-preset levels.



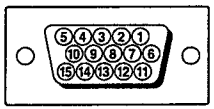
EN

Specifications

Picture tube	0.30 mm aperture grille pitch 20 inches measured diagonally 90-degree deflection
Viewable image size	Approx. 388 × 292 mm (w/h) (15 3/8 × 11 1/2 inches) 19.1" viewing image
Resolution	Horizontal: Max. 1280 dots Vertical: Max. 1024 lines
Standard image area	Approx. 373 × 280 mm (w/h) (14 3/4 × 11 1/8 inches) or Approx. 350 × 280 mm (w/h) (13 7/8 × 11 1/8 inches)
Deflection frequency	Horizontal: 30 to 86 kHz Vertical: 48 to 150 Hz
AC input voltage/current	100 to 120 V, 50/60 Hz, 1.7 A 220 to 240 V, 50 – 60 Hz, 1.2 A
Power consumption	Max. 150 W
Dimensions	Approx. 472 × 493.5 × 501 mm (w/h/d) (18 5/8 × 19 1/2 × 19 3/4 inches)
Mass	Approx. 29.5 kg (65 lb 1 oz)

Pin assignment

Video input 1 connector (HD15) (Female)
The cable accepts RGB video signals (0.714 Vp-p, positive) and SYNC signals.



Pin No.	Signal	Pin No.	Signal
1	Red	8	Blue Ground
2	Green (Composite Sync on Green)	9	DDC + 5V*
		10	Ground
		11	—
3	Blue	12	Bi-Directional Data (SDA)*
4	—		
5	DDC Ground*	13	H. Sync
6	Red Ground	14	V. Sync
7	Green Ground	15	Data Clock (SCL)*

* Display Data Channel (DDC) Standard by VESA.

Design and specifications are subject to change without notice.

Troubleshooting

This section may help you isolate a problem and as a result, eliminate the need to contact technical support, allowing continued productivity.

No picture

➡ If neither the ⏻ (power) indicator nor the POWER SAVING indicator is lit
— Check that the power cord is properly connected.
— Check that the ⏻ power switch is in the "on" position.

➡ If the POWER SAVING indicator is lit
— Check that your computer power switch is in the "on" position.
— The monitor will recover when you press any key on the keyboard of the computer.
— Check that the video cable is properly connected. (If your computer is a Macintosh system, the Macintosh adapter (not supplied) is required.)
— Check that the 5 BNC's are connected in the right order (from power cord side: Red-Green-Blue-HD-VD).
— Ensure that no pins are bent or pushed in the HD15 connector of the cable.
— Check that the video card is seated completely in a proper bus slot.
— Check that the video frequency range is within that specified for the monitor.
— If using a Macintosh system, check that the Macintosh adapter and the video signal cable are properly connected.

➡ If your system is the Windows 95
— Even if you select SONY for the maker on the device select screen, the model name (CPD-300SFT5) may not appear.
In this case, select the DDC standard monitor.

➡ If the ⏻ (power) and/or the POWER SAVING indicators are both flashing
— Turn the monitor off and on. If the indicators are not both flashing, the monitor is in the normal condition. If the indicator is still flashing, there is a potential monitor failure.

➡ If you do the above procedures and the monitor does not recover
— Unplug the video cable, then press and hold the ☼ + button for 2 seconds to display the color bars. If the color bars appear, the monitor is in the normal condition. Then turn the monitor off and on by pressing the ⏻ power switch to return the monitor to the normal condition.
If the color bars do not appear, there is a potential monitor failure.

➡ If your computer is a Macintosh system and the Macintosh adapter has micro switches
— Check that the micro switches are properly set for your system. (See the adapter manual.)

Troubleshooting

Picture is scrambled

➡ Check your graphics board manual for the proper monitor setting on your Multiscan 300sf.
➡ Check this manual and confirm that the graphic mode and the frequency at which you are trying to operate is supported. Even within the proper range some video boards may have a sync pulse that is too narrow for the monitor to sync correctly.

Color is not uniform

➡ If the monitor is close to any potencial sources of magnetic fields such as a speaker, or you turn the monitor while the ⏻ power switch is in the "on" position, color may not be uniforme. Trip the ⏻ power switch once to activate the Auto-degauss cycle*.

White does not look white

➡ Adjust color temperature using the OSD. (page 8)
➡ Check that the 5 BNC's are connected in the right order (from power cord side: Red-Green-Blue-HD-VD).
➡ If your computer is a Macintosh system and the Macintosh adapter has micro switches, check that the micro switches are properly set for your system. (See the adapter manual.)

Picture is flickering

➡ If the refresh rate is not appropriate, the picture may flicker. Set the refresh rate of the non-interlace mode as high as possible on the computer. For detailes on how to set the refresh rate, consult the dealer of your computer or video board.

Screen image is not centered or sized properly

➡ Adjust centering, size or geometry using the OSD. (page 6, 7)
➡ Some video modes do not fill the screen to the edge of the monitor. There is no single answer to solve the problem. There is a tendency to have this problem on higher refresh timings and Macintosh video timings.

Edges of the image are curved

➡ Adjust pincushion using the OSD. (page 7)

White lines show red or blue shades at edges

➡ Adjust the convergence using the OSD. (page 8)

Picture is fuzzy

➡ Adjust the contrast and brightness using the OSD (page 6). We have come across several brands of SVGA boards that have an excessive video output level which creates a fuzzy picture at max contrast.
➡ Trip the ⏻ power switch once to activate the Auto-degauss cycle*.
➡ If red or blue shades are found at the edge of images, adjust convergence using the OSD. (page 8)

Picture bounces or has wavy oscillations

➡ Isolate and eliminate any potential sources of electric or magnetic fields. Common causes for this symptom are electric fans, fluorescent lighting, laser printers, and so on.
➡ If you have another monitor close to this monitor, increase the distance between them to reduce the interference.
➡ Try plugging the monitor into a different AC outlet, preferably on a different circuit.
➡ Try the monitor on a completely different computer in a different room.

Picture appears to be ghosting

➡ Eliminate the use of video cable extension cable and/or video switch boxes if this symptom occurs. Excessive cable length or weak connection can produce this symptom.

Two fine horizontal lines (wires) are visible

➡ These wires stabilize the vertically striped Aperture Grille. This Aperture Grille allows more light to pass through to the screen giving the Trinitron CRT more color and brightness.

Wavy or elliptical (moire) pattern is visible

➡ Due to the relationship between resolution, monitor AG pitch and the pitch of some image patterns, certain screen backgrounds, especially gray, sometimes show moire. This can only be eliminated by changing your desktop pattern.

Just after turning the monitor on, a "boon" noise is heard

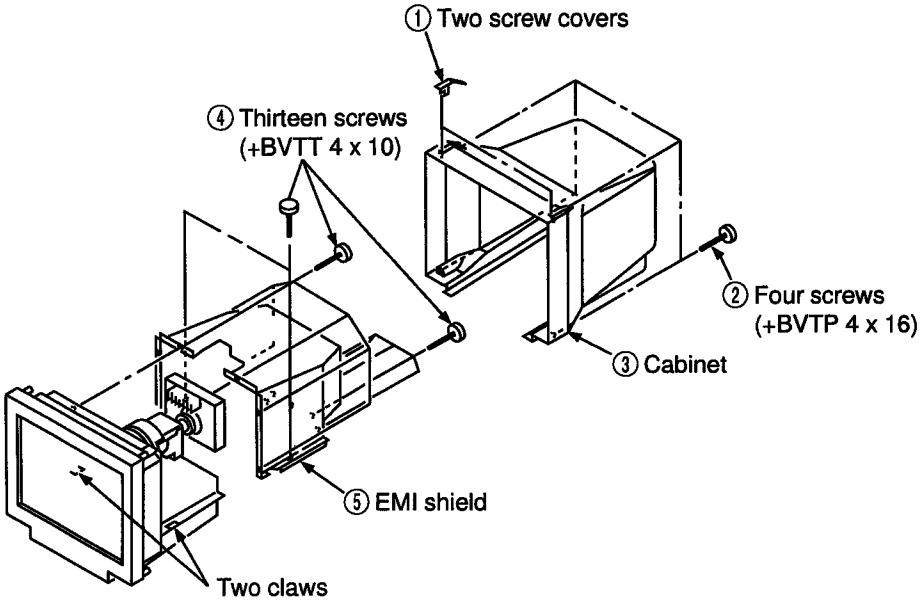
➡ Just after turning the monitor on, a noise may be heard for about 3 seconds.
This noise is not failure, it is caused by the auto-degauss cycle*.

* The Auto-degauss function demagnetizes the metal frame of the CRT to obtain a neutral field for uniform color reproduction. If a second degauss cycle is needed, allow a minimum interval of 20 minutes for the best result.

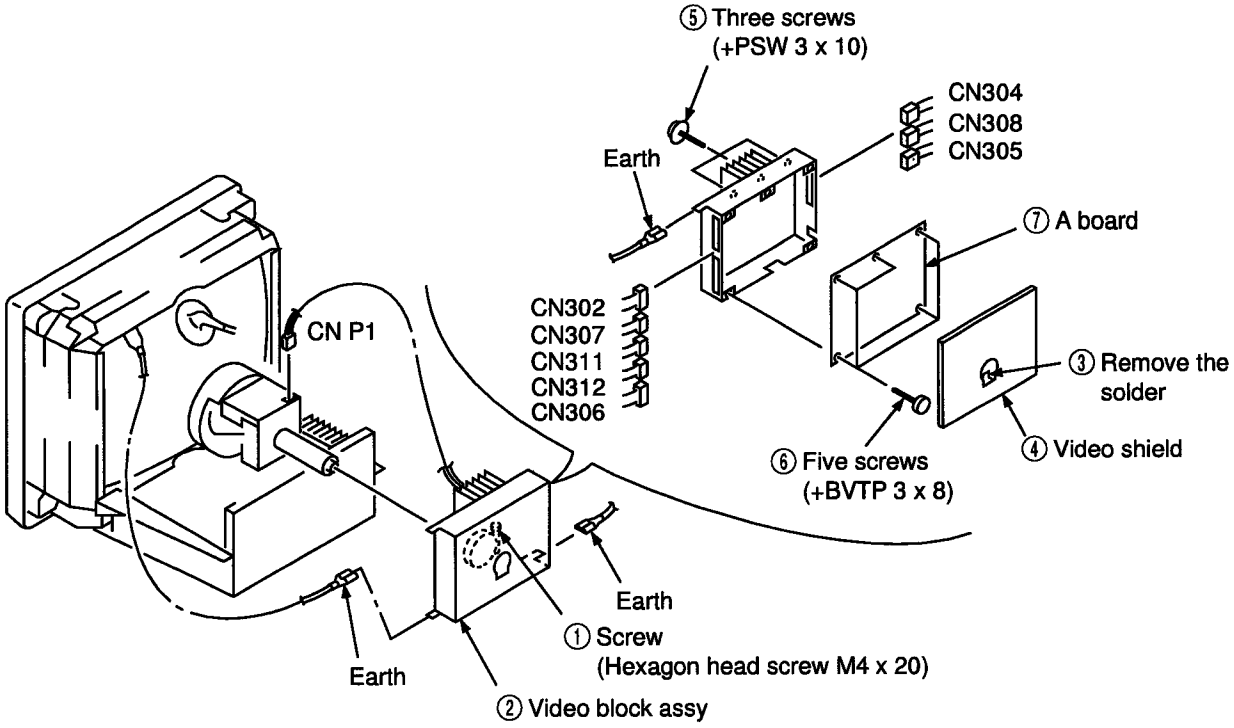
* If the problem persists, call your authorized Sony dealer from a location near your monitor.
* Note the model name and the serial number of your monitor. Also note the make and name of your computer and video board.

SECTION 2
DISASSEMBLY

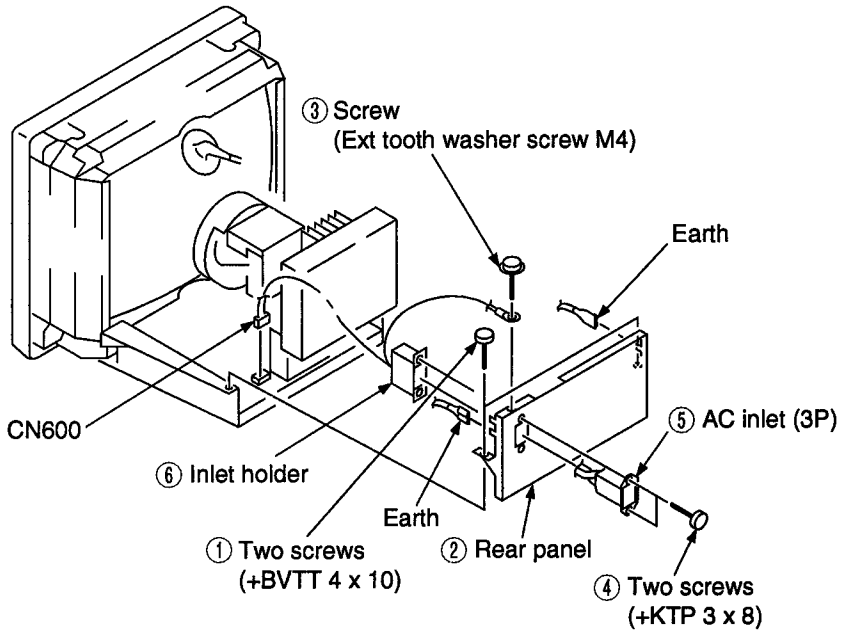
2-1. CABINET AND EMI SHIELD REMOVAL



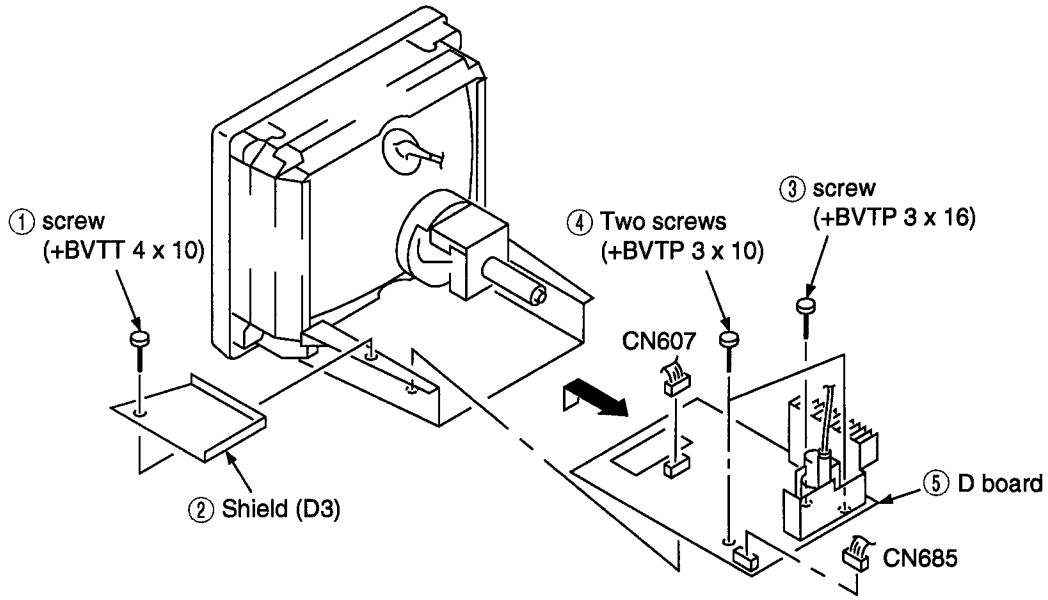
2-2. A BOARD REMOVAL



2-3. REAR PANEL REMOVAL

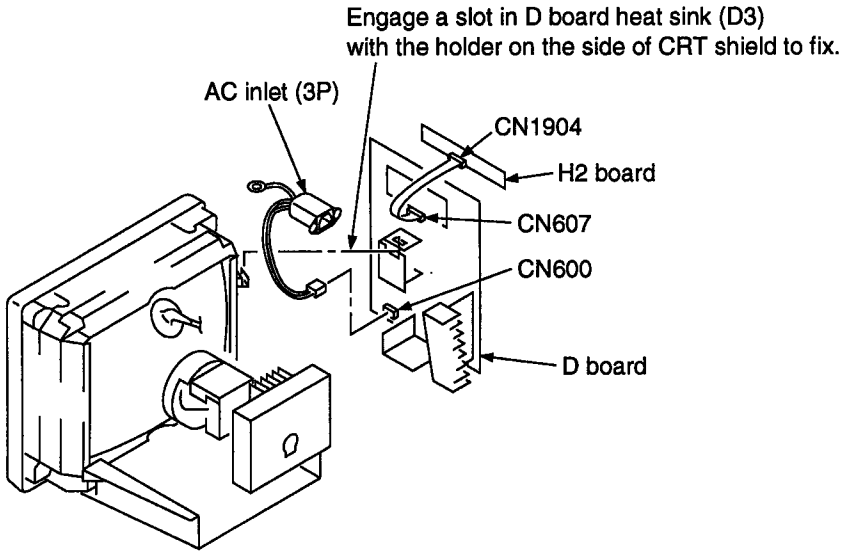


2-4. D BOARD REMOVAL

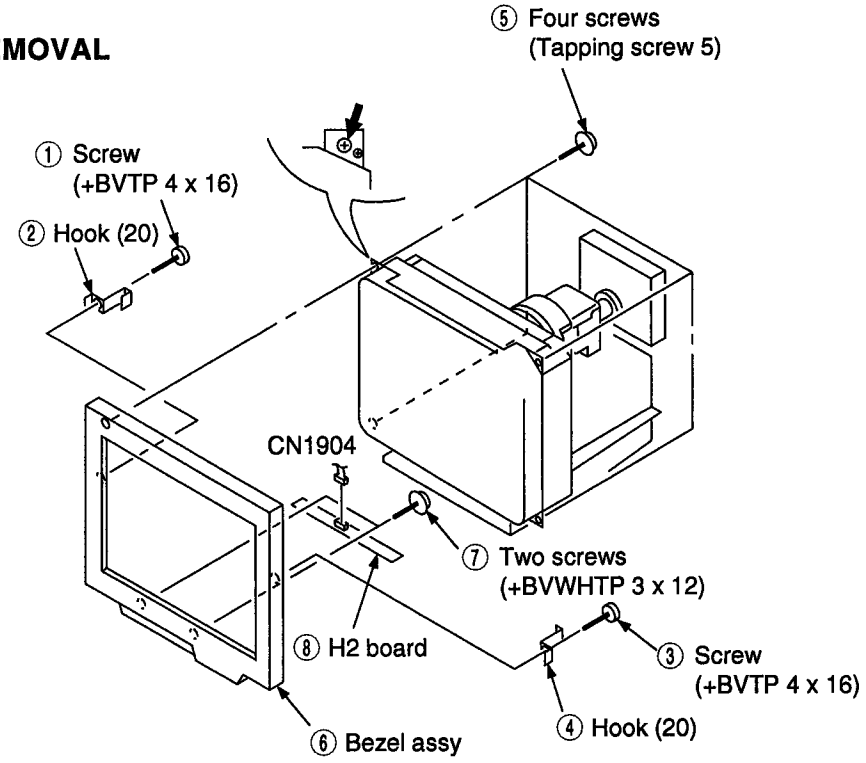


2-5. SERVICE POSITION

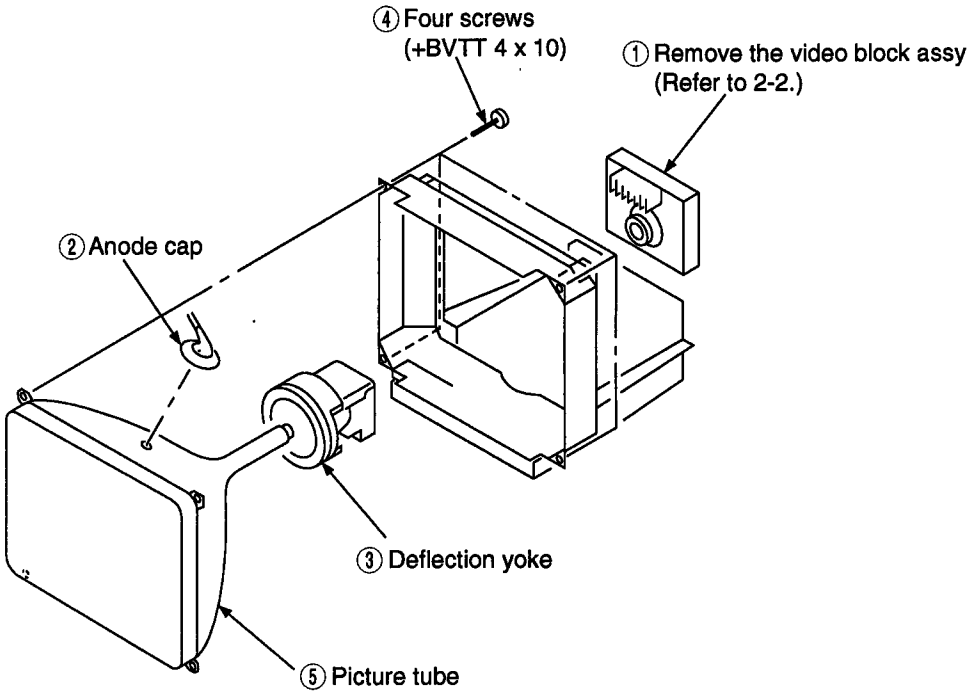
Remove the AC inlet (Refer to 2-3.)
Remove the D board (Refer to 2-4.)
Remove the H2 board (Refer to 2-6.)



2-6. H2 BOARD REMOVAL



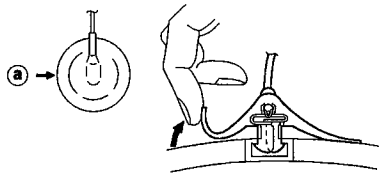
2-7. PICTURE TUBE REMOVAL



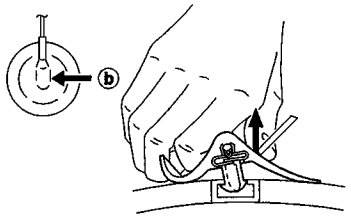
• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

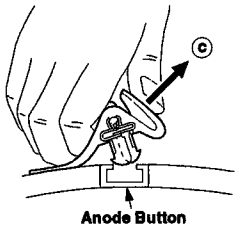
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



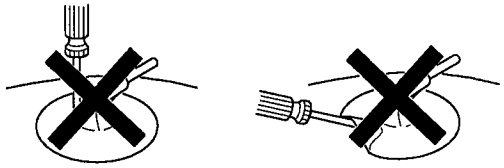
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with shartp shaped material!
② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3
SAFETY RELATED ADJUSTMENT

When replacing or repairing the shown below table, the following operational checks must be performed as a safety precaution against X-rays emissions from the unit.

	Part Replaced (⧓)
HV ADJ	RV401

	Part Replaced (◪)
HV Regulator Circuit	D board IC401, IC403, RV401, FBT(T404), D425, R423, R460, R461, R462, R493 • Mounted D board
HV Hold-Down Circuit	D board IC401, D439, D442, D443, D444, R422, R435, R448, R490 • Mounted D board
Beam Current Protector Circuit	D board IC401, D429, D445, R435, R470, R472, R487, R497, R501, R503, R508 • Mounted D board

※ Confirm one minute later turning on the power.

Check Condition

- Input voltage : 118~122 V AC
- Input signal : White dots or Cross Hatch
- Controls : BRT and CONT → Minimum

a) HV Hold-Down Check

1) Using an external DC Power supply, apply the voltage shown below between cathode of D439 on D board and GND, and confirm that the HV Hold-Down circuit works. (TV Raster disappears)
   Standard voltage: Less than 28.40 V DC

b) Beam Current Protector Circuit Check-1 (Hardware logic)

1) Record the initial value of ABL-SHUTDOWN and using a PC computer, input the "255" for resistor value.
2) Connect a resistor (100 KΩ) between pin ② of CN811 and pin ⑮ of CN812.
3) Confirm that the raster appears on the CRT screen.
4) Connect a variable resistor (12 KΩ or more) and an ammeter in serles between pin ⑪ of FBT (T404) and GND, then, decrease gradually the resistance of the variable resistor from mamximum to minimum, and confirm that the Beam Current Protector Circuit works (TV Raster disappears).
   The current must be within the range shown below.
   Standard current: Less than 1.48 mA
5) Turn off the Unit.

c) Beam Current Protector Circuit Check-2 (Software logic)

1) Make a short between pin ⑱ of CN811 and pin ① of CN810.
2) Confirm that the raster appears on the CRT screen.
3) Connect a variable resistor (12 KΩ or more) and an ammeter in serles between pin ⑪ of FBT (T404) and GND, then, decrease gradually the resistance of the variable resistor from maximum to minimum, and confirm that the Beam Current Protector Circuit works (TV Raster disappears).
   The current must be within the range shown below.
   Standard current: Less than 1.30 mA
4) Back the value of ABL-SHUTDOWN to the initial regulation value.
5) Turn off the Unit.

SECTION 4
ADJUSTMENTS

● Landing Rough Adjustment

1. Enter the full white signal. (or the full black dots signal).
2. Set the contrast to the maximum.
3. Make the screen monogreen.
4. Reverse the DY, and adjust coarsely the purity magnet so that a green raster positions in the center of screen.

Note: Off the outputs from R ch and B ch of SG.

5. Moving the DY forward, adjust so that an entire screen becomes monogreen.
6. Adjust the tilt of DY, and fix lightly with a clamp.

Note: "TILT" shall be set at 0.

● Landing Fine Adjustment

1. Put the set inside the Helmholtz coil.
2. Input the single green signal and set the CONT control to MAX.

Note: Set to Σ 1k=300 μA with the signal green signal, and after aging for about 30 minutes, adjust so that it is exactly this value.

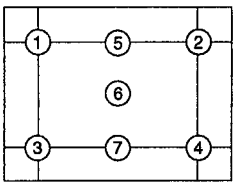
3. Demagnetize the metal part of the chassis with the hand degausser and coil degausser, and the CRT surface with the hand degausser.
   Input AC 230V to AC IN, turn on and off the power to perform auto degaussing.
   Demagnetize the CRT surface with the hand degausser again.

Note:

(1) Adjust in s non-magnetic field. BV=45uT.
(2) If adjusting in a magnetic fields, add the shift from the non-magnetic field in your estimation.

4. Attach the wobbling coil to the designated part of the CRT neck.
5. Attach the sensor of the landing adjustment unit on the CRT surface.
6. Adjust the DY position and purity, and the DY tilt, and landing of the center and 4 corners with the landing checker.

<Specification>



Adjust the green of corners ① to ④, and center ⑥ to ±5 μm, and red and blue to within ±7 μm of green, and the difference between red and blue to within ±10 μm.
Adjust the green of ⑤ and ⑦ to within ±10 μm, and red and blue to within ±7 μm of green, and the difference between red and blue to within ±10 μm.

(Set each corner to 1st frame of the crosshatch.)

7. For the up/down and left/right swing, swing the DY and insert a wedge so that the up and down pins are equal at the top and bottom and the horizontal trapezoid is equal at the left and right. Insert the wedge firmly so that the DY does not shake.
8. Check the landing of each corner, and if they do not satisfy the specification, paste a Disk-Mg onto the funnel and adjust.

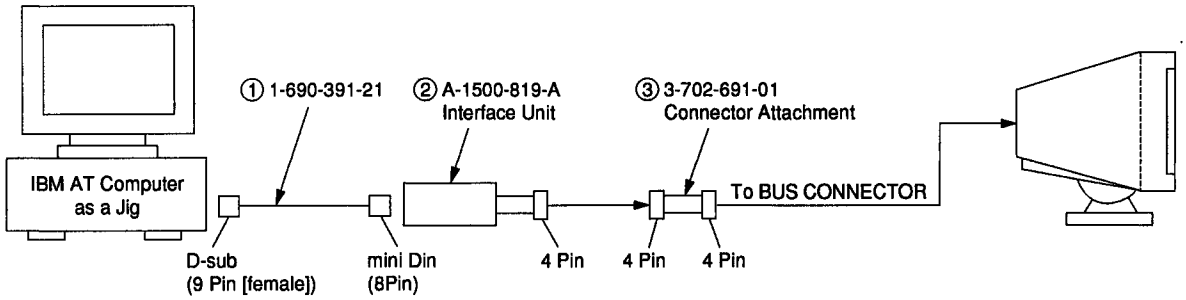
Note:

(1) Do not paste more than 2 magnets to one corner.
(2) Paste within 80 to 100 mm from the DY on the diagonal line of the magnet.
(3) If using the magnet, be sure to demagnetize with the hand degausser and check.

9. Remove the sensor and wobbling coil.
10. Switch the signal to R.G.B., and check that each color is pure.
11. Check that the DY is not tilting, and fix the purity Mg with a white pen.
12. Fasten DY with screw.

Note: Torque 20 ±2kg·cm

Connect the communication cable of the computer to the connector located on the D board on the monitor. Run the service software and then follow the instruction.



*The parts above (① ~ ③) are necessary for DAS adjustment.

● Convergence Rough Adjustment

(1) Receive an image of the white crosshatch signals (white lines on black).
(2) Place the protrusions (A and B) of the 6-fold poles magnet attached to the CRT neck upon each other. (See fig. 3)
(3) Make rough adjustment of the H direction convergence by using H. STAT VR (RV101. Right side of the video case).
(4) Make a rough adjustment of the V direction convergence by using "V. CONV".

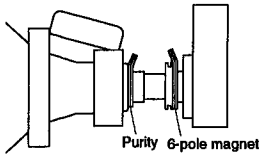


Fig. 1

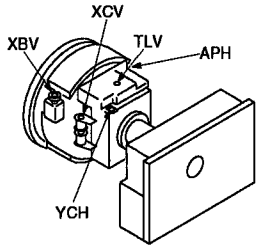
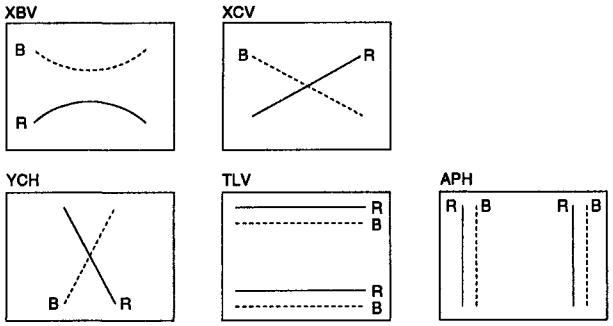


Fig. 2



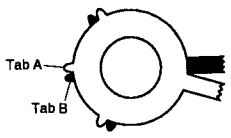


Fig. 3

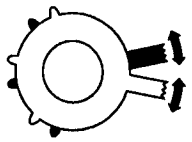


Fig. 4

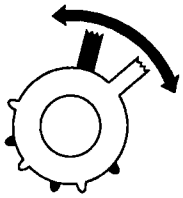
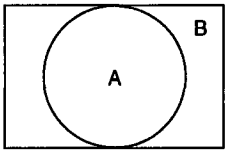


Fig. 5

● Convergence Specification

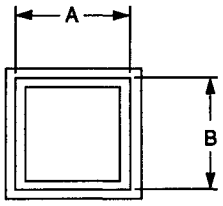


MODE	9	1-8,10
A	0.30 mm	0.35 mm
B	0.40 mm	0.45 mm

● White Balance Adjustment Specification

(1) 9300K
x = 0.283 ± 0.005
y = 0.298 ± 0.005
(All White)
(2) 6500K
x = 0.313 ± 0.005
y = 0.329 ± 0.005
(3) 5000K
x = 0.346 ± 0.005
y = 0.359 ± 0.005

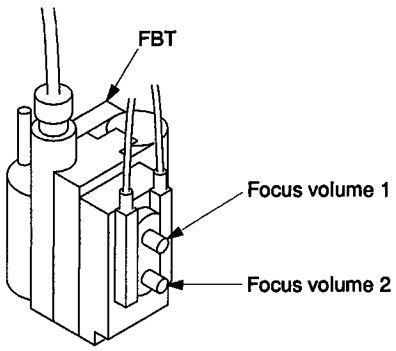
● Vertical and Horizontal Position and Size Specification



MODE	7,10	1-6,8,9
A	350 mm	373 mm
B	280 mm	280 mm

● Focus adjustment

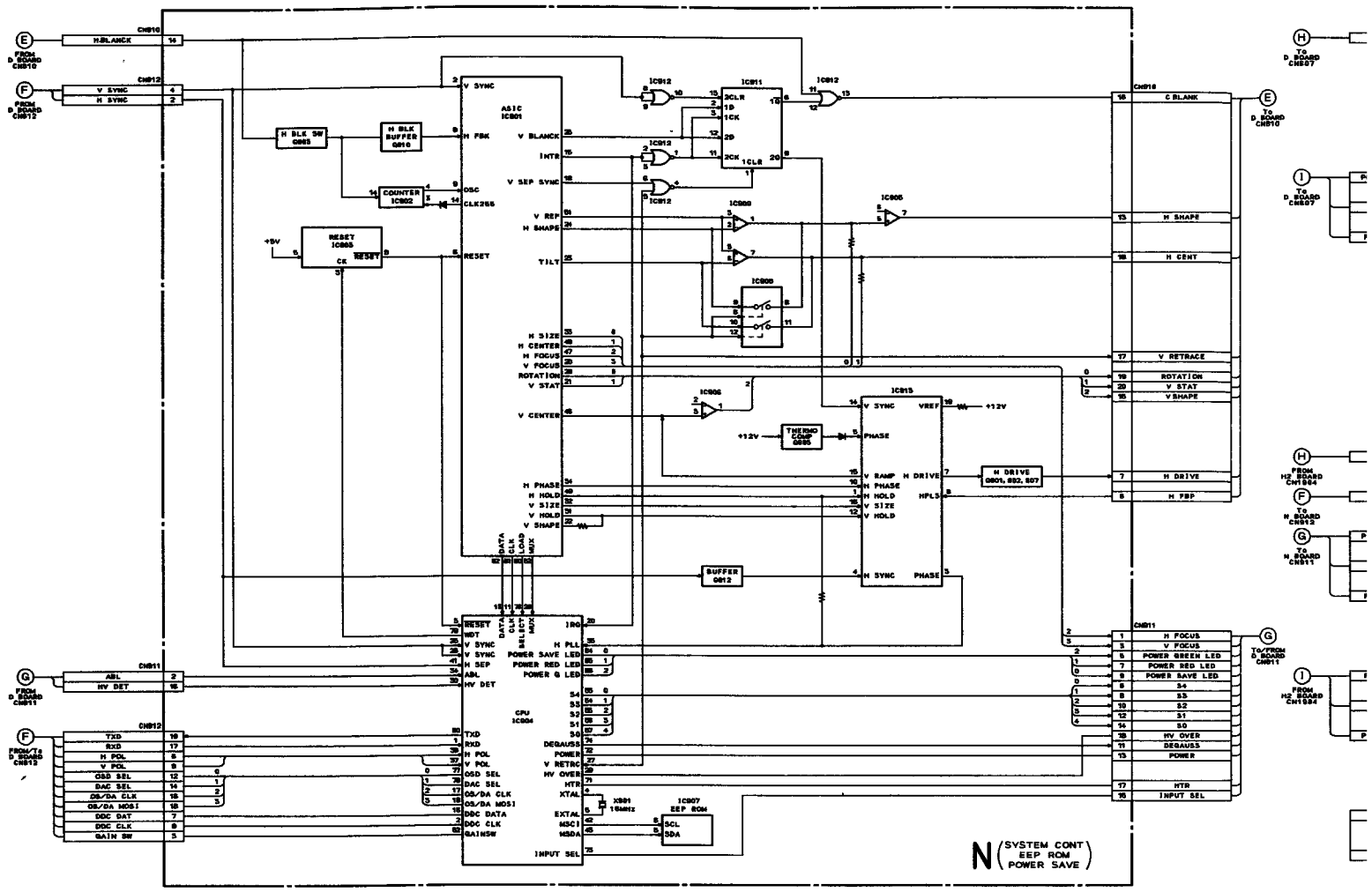
Adjust the focus volume 1 and 2 for the optimun focus.

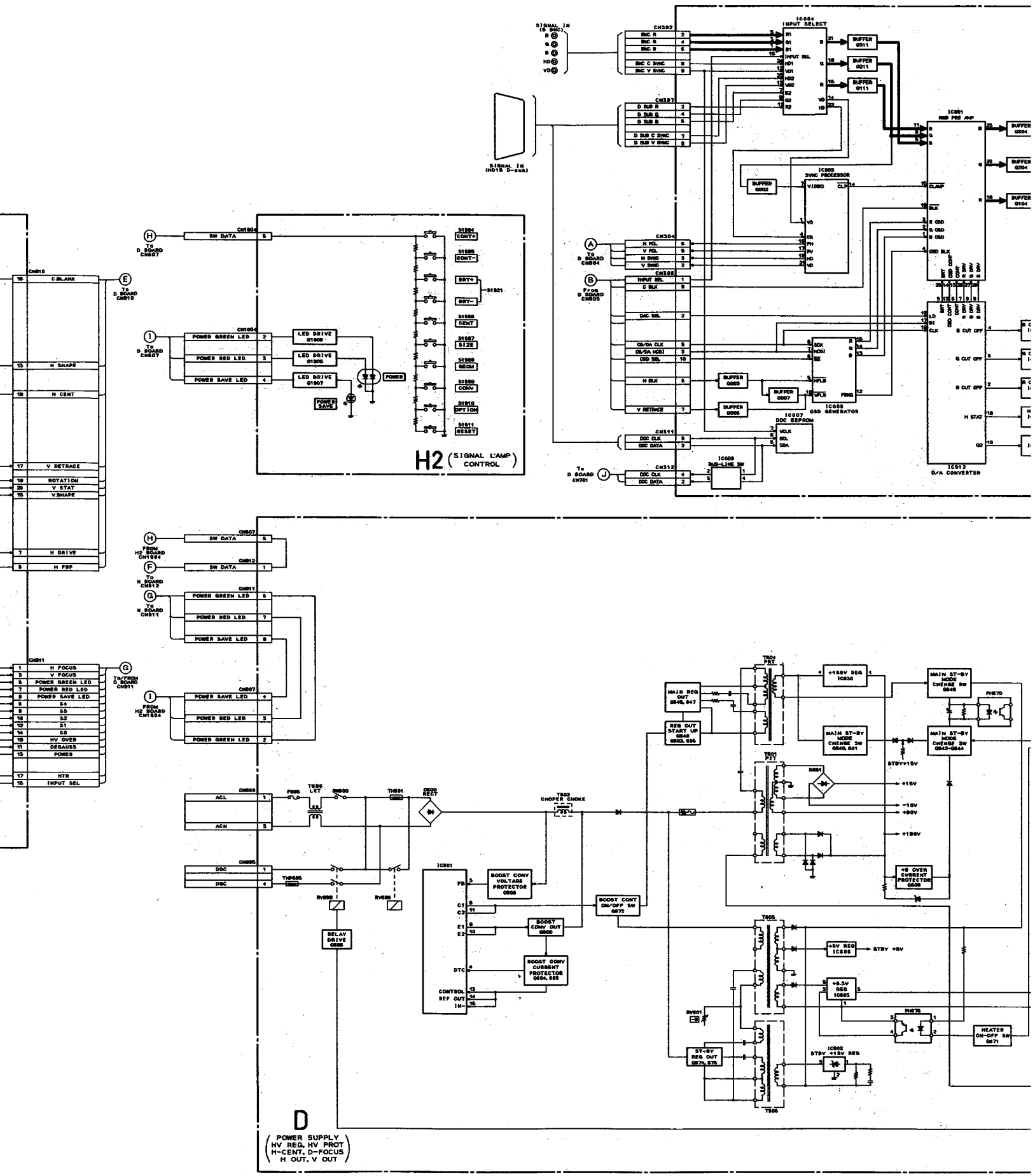


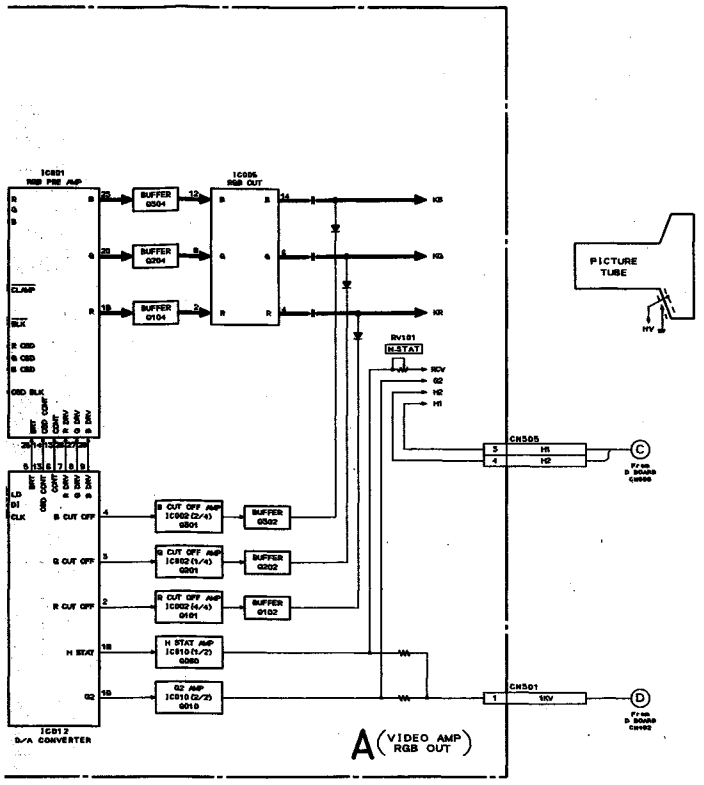
MEMO

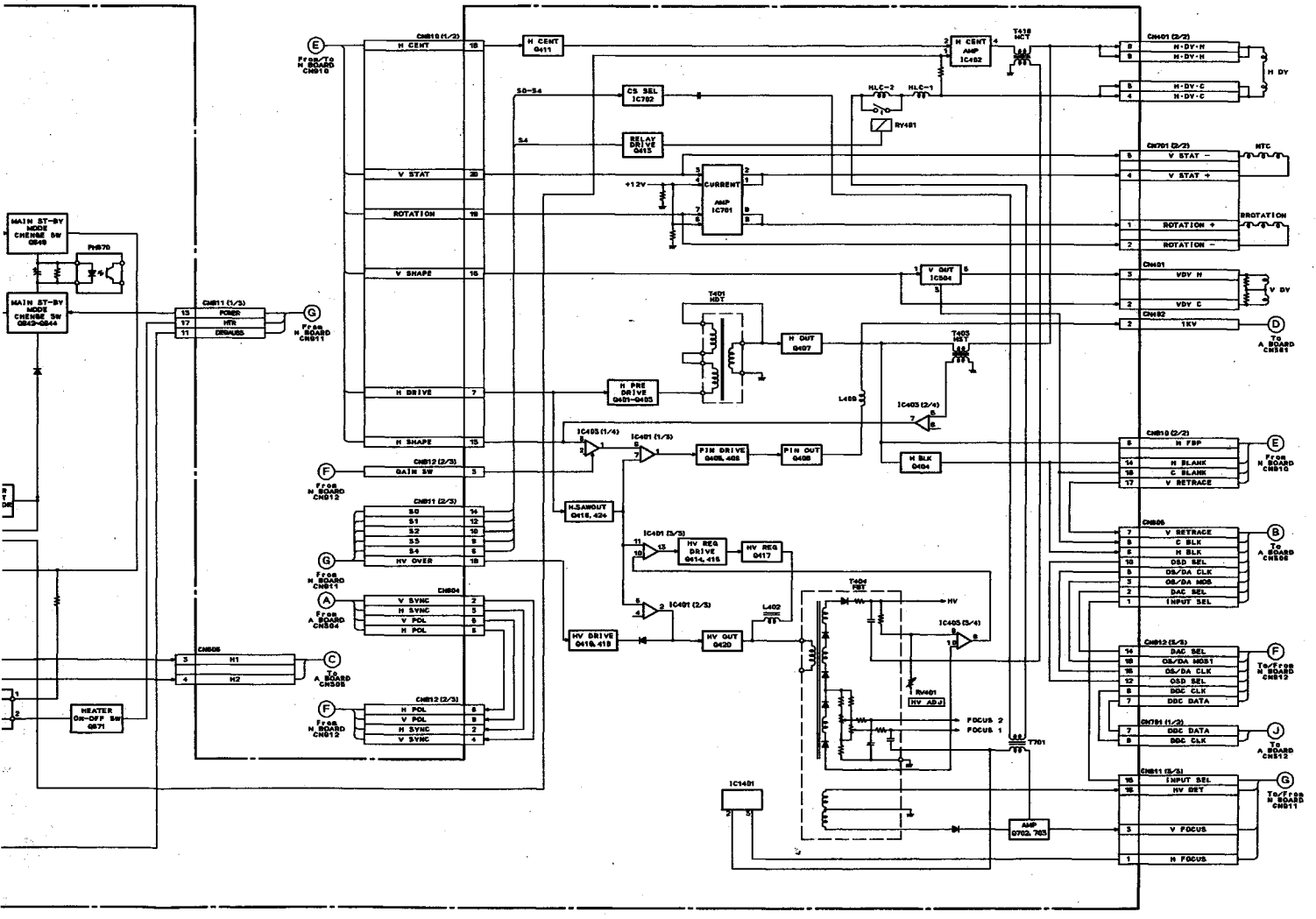
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM (with FRAME SCHEMATIC DIAGRAM)

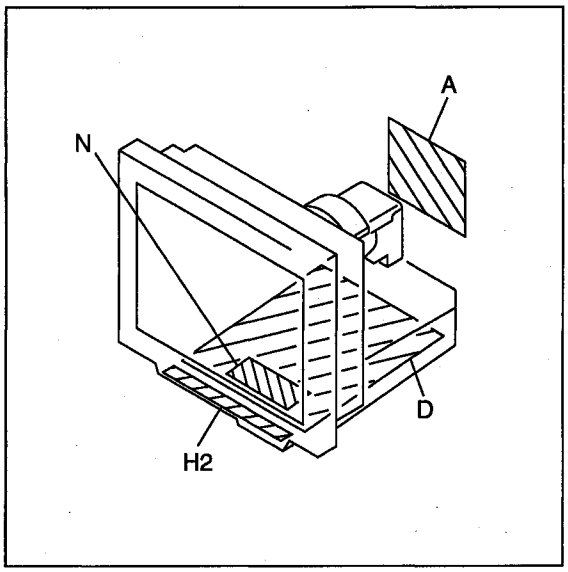



H2 (SIGNAL LAMP CONTROL)
D
(POWER SUPPLY
HV REG, HV PROT
H-CENT, D-FOCUS
H OUT, V OUT)


PICTURE TUBE
BUFFER
RV101
H.STAT
CN505
CN501
IC812
D/A CONVERTER
A (VIDEO AMP RGB OUT)


H CENT
V STAT
ROTATION
V SHAPE
H DRIVE
H SHAPE
GAIN SW
V SYNC
H SYNC
V POL
H POL
CS SEL IC702
RELAY DRIVE Q413
CURRENT AMP IC701
H CENT AMP IC452
H OUT Q407
H PRE DRIVE Q401-Q405
PIN DRIVE Q408, 409
PIN OUT Q409
H BLK Q404
V OUT IC304
HV REG DRIVE Q414, 416
HV REG Q417
HV DRIVE Q418, 419
HV OUT Q420
H.SAWOUT Q418, 424
T401 HDT
T403 HDT
T404 FBT
T701
RV401 HV ADJ
FOCUS 2
FOCUS 1
IC1401
AMP Q702, 703
V FOCUS
H FOCUS
HV DET
MAIN ST-BY MODE CHENGE SW Q849
HEATER ON-OFF SW Q871
Ph870

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 V or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- □ : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth-ground.
- ⏚ : earth-chassis.
- The components identified by ⊠ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪, make the necessary adjustments indicated. (See page 13)
- When replacing the part in below table, be sure to perform the related adjustment.

	Part replaced (⊠)
HV ADJ	RV401

	Part replaced (◪)	
HV Regulator Circuit	D board	IC401, IC403, RV401, FBT (T404), D425, R423, R460, R461, R462, R493 • Mounted D board
HV Hold-Down Circuit	D board	IC401, D439, D442, D443, D444, R422, R435, R448, R490 • Mounted D board
Beam Current Protector Circuit	D board	IC401, D429, D445, R435, R470, R472, R487, R497, R501, R503, R508 • Mounted D board

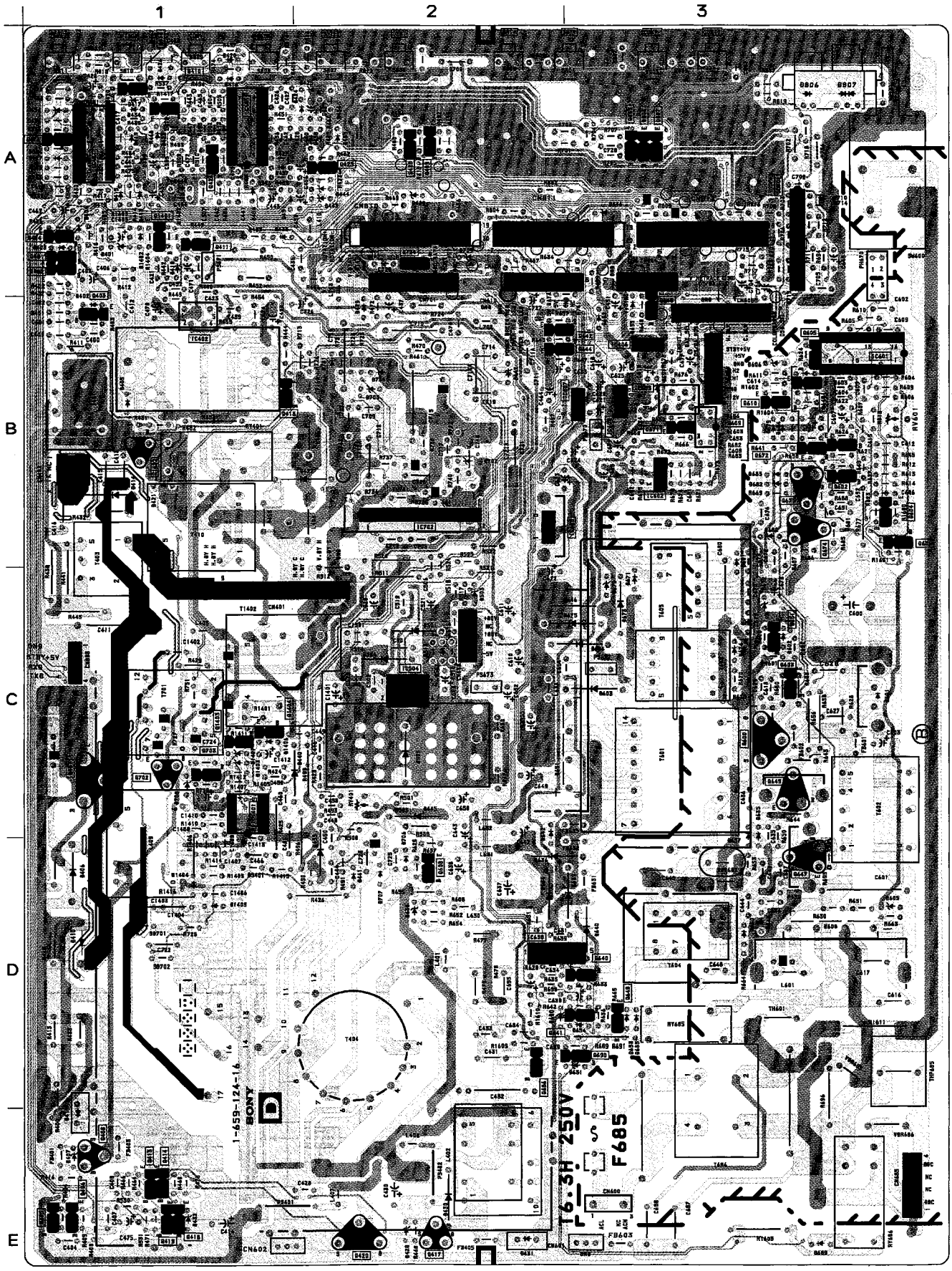
- All voltages are in V.
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.
- Circled numbers are waveform references.
- ——— : B + bus.
- – – – : B – bus.

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

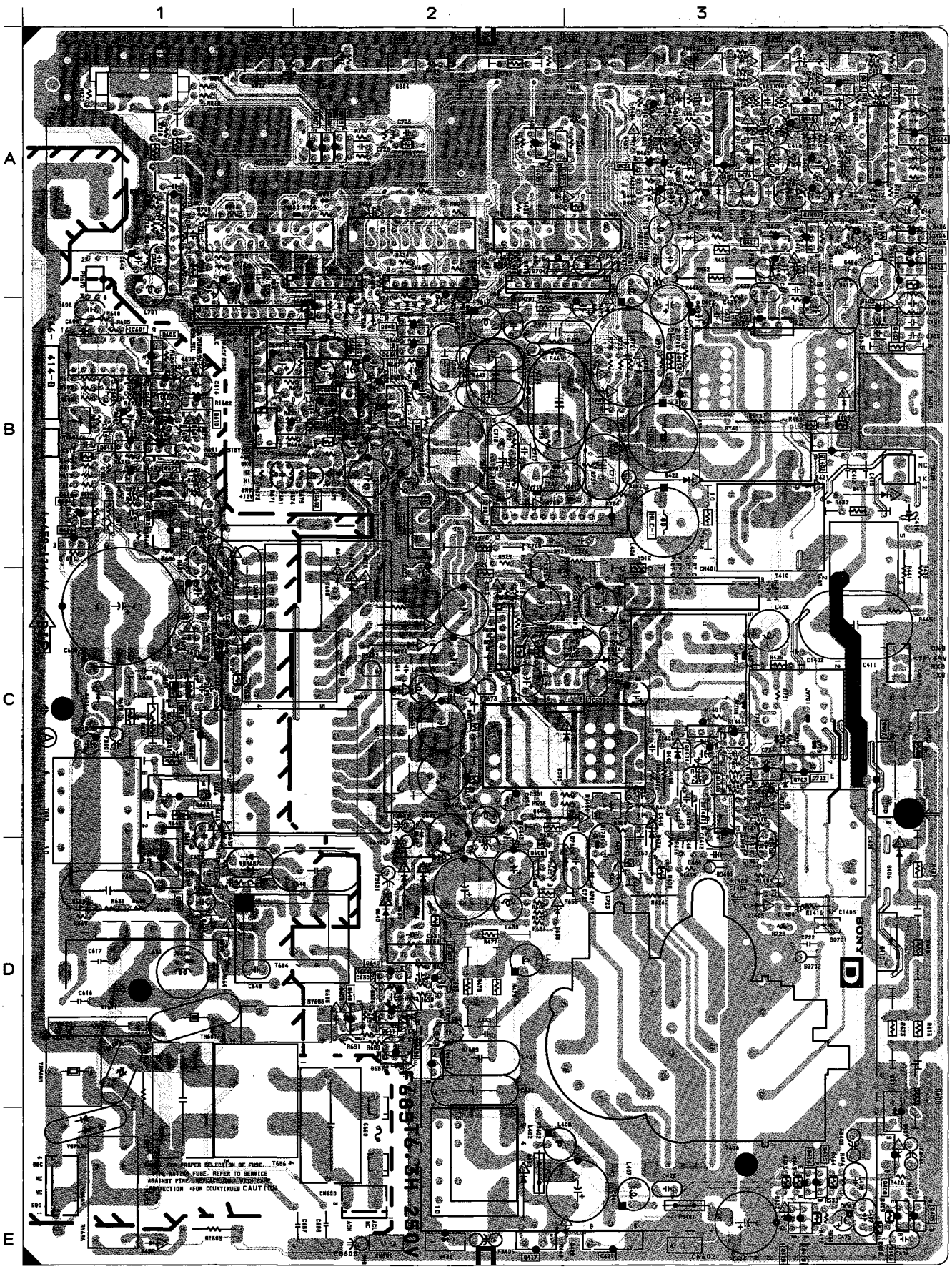
D [POWER SUPPLY, HV REG
HV PROT, H-CENTER
D-FOCUS, H-OUT, V-OUT]

— D BOARD (Conductor side) —



∘ ▒▒▒ : Pattern from the side which enables seeing.
• ▒▒▒ : Pattern of the rear side.

— D BOARD (Component side) —



◦ ▒▒▒▒ : Pattern from the side which enables seeing.
• ▒▒▒▒ : Pattern of the rear side.

(1) Schematic Diagram of D Board

● D BOARD SEMICONDUCTOR LOCATION

IC

	(Conductor) Side	(Component) Side
IC401	A–1	A–3
IC402	B–1	B–3
IC403	A–1	A–3
IC504	C–2	C–3
IC601	B–3	B–1
IC602	B–3	B–1
IC603	B–3	B–2
IC606	B–3	B–2
IC607	B–3	B–2
IC608	B–2	B–2
IC609	B–3	B–2
IC630	D–2	D–2
IC701	A–3	A–1
IC702	B–2	B–2
IC1401	C–1	C–3

TRANSISTOR

	(Conductor) Side	(Component) Side
Q401	A–1	A–3
Q402	A–1	A–3
Q403	B–1	B–3
Q404	A–1	A–3
Q405	E–1	E–3
Q406	E–1	E–3
Q407	C–1	C–3
Q408	E–1	E–2
Q409	A–2	A–2
Q410	A–1	A–3
Q411	A–1	A–3
Q413	B–1	B–3
Q414	E–1	E–3
Q415	E–1	E–3
Q416	A–1	A–3
Q417	E–2	E–1
Q418	E–1	E–3
Q419	E–1	E–3
Q420	E–2	E–3
Q423	A–2	A–3
Q424	A–1	A–3
Q425	A–2	A–2
Q426	A–1	A–3
Q600	C–3	C–1
Q601	C–3	C–1
Q602	B–3	B–1
Q603	C–3	C–1
Q604	B–3	B–1
Q605	B–3	B–1
Q606	B–3	B–1
Q608	D–2	D–2
Q609	B–3	B–1
Q610	B–3	B–1
Q640	D–3	D–2
Q641	D–3	D–2
Q642	B–2	B–2
Q643	B–3	B–2
Q644	B–2	B–2
Q645	C–3	C–1
Q647	D–3	D–1
Q648	B–3	B–1
Q649	D–3	D–2
Q671	B–3	B–1
Q672	B–3	B–1
Q674	B–3	B–1
Q675	B–3	B–1
Q686	D–2	D–2
Q690	D–2	D–2
Q702	C–1	C–3
Q703	C–1	C–3
Q704	A–2	A–2
Q1401	A–1	A–3
Q1402	B–1	B–3
Q1403	C–1	C–3
Q1404	C–1	C–3

DIODE

	(Conductor) Side	(Component) Side
D401	A–1	A–3
D402	B–1	B–3
D403	A–1	A–3
D404	A–1	A–3
D405	B–1	B–3
D406	D–1	D–3
D407	E–1	E–3
D408	A–2	A–2
D410	D–1	D–3
D411	E–1	D–3
D412	A–1	A–3
D413	A–1	A–3
D414	B–1	B–3
D415	A–1	A–3
D416	A–1	A–3
D417	A–1	A–3
D418	A–1	A–3
D419	A–1	A–3
D420	A–1	A–3
D421	A–1	B–3
D422	B–2	B–3
D423	A–1	A–3
D424	A–2	A–3
D425	A–2	A–3
D426	A–1	A–3
D427	A–1	A–3
D428	E–2	E–3
D429	B–2	B–3
D430	E–2	E–2
D431	E–1	E–2
D432	E–1	E–3
D433	A–1	A–3
D434	A–1	A–3
D438	A–2	A–3
D439	D–2	C–3
D440	C–1	C–3
D441	D–2	D–3
D442	B–2	B–2
D443	A–2	A–3
D444	A–2	A–3
D445	A–2	A–3
D446	A–3	A–2
D448	A–1	A–3
D451	A–1	A–3
D454	A–1	A–3
D455	A–2	A–3
D456	A–1	A–3
D457	A–1	A–3
D501	C–2	C–2
D502	C–2	C–2
D503	C–2	C–2
D504	C–2	C–3
D505	C–2	C–3
D600	D–3	D–1
D601	C–3	C–1
D602	C–3	C–1
D603	C–3	C–2
D604	C–3	C–2
D605	C–3	A–3
D606	B–3	B–1
D631	D–2	D–2
D632	B–3	B–2
D634	D–2	D–2
D635	D–3	D–2
D636	D–2	D–2
D637	D–3	D–1
D638	D–2	D–2
D639	D–3	D–2
D640	D–3	D–2
D642	C–2	C–2
D648	D–3	D–1
D650	D–3	D–1
D651	C–3	C–2
D653	D–3	D–2
D654	D–3	D–2
D655	B–3	B–2
D670	C–3	C–2
D671	B–3	C–2
D672	C–3	C–1
D673	C–3	C–1
D674	C–3	C–2
D675	C–3	C–2
D679	B–3	B–1
D680	B–3	B–1
D681	B–3	B–1
D682	B–3	B–1
D683	B–3	B–1
D684	B–3	B–1
D685	B–3	B–1
D686	B–3	B–1
D689	E–3	E–3
D690	D–3	D–2
D691	B–3	B–2
D701	B–2	B–3
D702	B–2	B–2
D703	B–2	B–2
D704	B–2	B–3
D706	D–2	D–3
D707	D–2	D–3
D708	C–1	C–3
D709	A–2	A–2
D1402	A–1	A–3
D1403	C–1	C–3
D1404	D–1	D–3
D1405	D–1	D–3
D1406	C–1	C–3
D1407	C–1	C–3

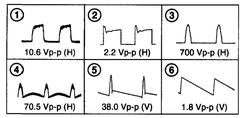
VARIABLE RESISTOR

	(Conductor) Side	(Component) Side
RV401	C–2	C–3
RV601	B–3	B–1

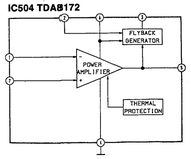
● D BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC401	1	9.1
	2	9.9
	4	3.2
	5	7.5
	6	5.3
	7	7.5
	8	4.3
	9	5.0
	10	4.7
	11	7.4
	13	9.1
	14	10.8
IC402	1	42.0
	2	42.0
	3	34.7
	4	41.6
IC403	1	5.2
	2	6.2
	3	6.2
	5	6.4
	6	6.4
	7	6.5
	8	4.7
	9	5.0
	10	5.0
	12	8.7
	13	8.7
	14	8.7
IC504	1	0.9
	2	−13.6
	4	−14.2
	5	0.3
	6	13.5
	7	0.9
IC601	1	2.5
	2	2.5
	3	2.5
	4	0.5
	5	1.5
	6	3.3
	8	12.0
	9	3.2
	10	3.2
	11	11.9
	12	10.9
	13	4.9
	14	4.9
	15	4.9
	16	0
IC602	1	2.5
	3	13.7
IC603	1	0
	2	2.5
	3	6.2
	4	5.0
	5	7.4
IC606	IN	7.8
	OUT	5.0
IC607	IN	−14.8
	OUT	−5.0
IC608	IN	14.7
	OUT	12.0
IC609	IN	12.0
	OUT	5.0
IC630	1	179.8
	3	13.9
	4	0
IC701	1	−0.7
	2	−0.8
	3	1.5
	4	1.5
	6	1.8
	7	1.8
	8	−0.2
	9	−0.2
	10	14.6
IC702	2	4.0
	3	0
	4	4.0
	5	0
	6	3.9
	7	0
	8	3.9
	9	0
	10	3.9
	11	0
IC1401	1	−10.3
	2	2.5
	3	2.5
PH670	1	1.2
	2	0.1
	3	0
	4	0.4
PH675	1	4.9
	2	4.5
	3	0
	4	2.6
Q401	B	5.2
	E	5.3
Q402	B	5.2
	C	14.4
	E	5.3
Q403	B	−14.3
	C	−0.2
	E	−14.2
Q404	B	0.5
	C	0.8
Q405	B	9.1
	E	8.7
Q406	B	9.1
	E	8.7
Q407	B	−1.0
	C	42.2
Q408	G	178.3
	D	43.3
	S	179.9
Q409	B	10.2
	C	0
Q410	B	0
	C	11.9
	E	0
Q411	B	0.5
	C	38.0
	E	0
Q413	B	0.7
	C	0.2
Q414	B	9.1
	E	8.9
Q415	B	9.1
	E	8.9
Q416	B	0
	C	7.5
Q417	G	176.9
	D	42.0
	S	179.9
Q418	B	9.9
	E	9.8
Q419	B	9.9
	E	9.8
Q420	G	9.9
	D	42.0
Q423	B	7.5
	E	8.3
Q424	B	10.3
	C	7.5
	E	10.9
Q425	B	4.8
	C	0
Q426	B	0
	C	5.2
	E	5.2
Q600	G	3.0
	D	91.2
	S	0
Q601	B	3.2
	C	0
	E	3.0
Q602	B	1.2
	C	−0.6
	E	2.0
Q603	B	0.1
	C	4.9
	E	0
Q604	B	5.6
	C	2.5
	E	4.9
Q605	B	1.0
	C	0.4
	E	0.4
Q606	B	4.9
	C	0.5
	E	4.9
Q608	B	180.0
	C	0
	E	180.1
Q609	B	1.6
	C	0
	E	1.5
Q610	B	0
	C	1.5
	E	0
Q640	B	14.0
	E	13.9
Q641	B	0.2
	C	14.0
Q642	B	1.2
	C	0
	E	1.2
Q643	B	0.7
	C	0.1
Q644	B	0
	C	1.2
Q645	B	201.0
	C	396.0
	E	202.1
Q647	B	−0.6
	C	202.1
	E	0
Q648	B	−0.7
	C	−0.6
	E	0
Q649	B	15.2
	C	15.9
	E	15.9
Q671	B	0
	C	4.4
Q672	B	11.3
	C	11.9
	E	12.1
Q674	B	191.0
	C	396.0
	E	194.3
Q675	B	−2.1
	C	194.3
	E	0
Q686	B	0
	C	14.8
Q702	B	3.2
	C	186.1
	E	2.7
Q703	B	2.7
	E	3.2
Q704	G	−0.6
	D	−0.1
Q1401	B	4.4
	E	3.8
Q1402	B	0.7
	C	0
Q1403	B	−10.5
	C	8.0
	E	−11.1
Q1404	B	11.8
	C	2.5

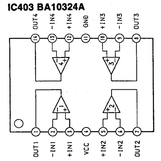
● D BOARD WAVEFORMS

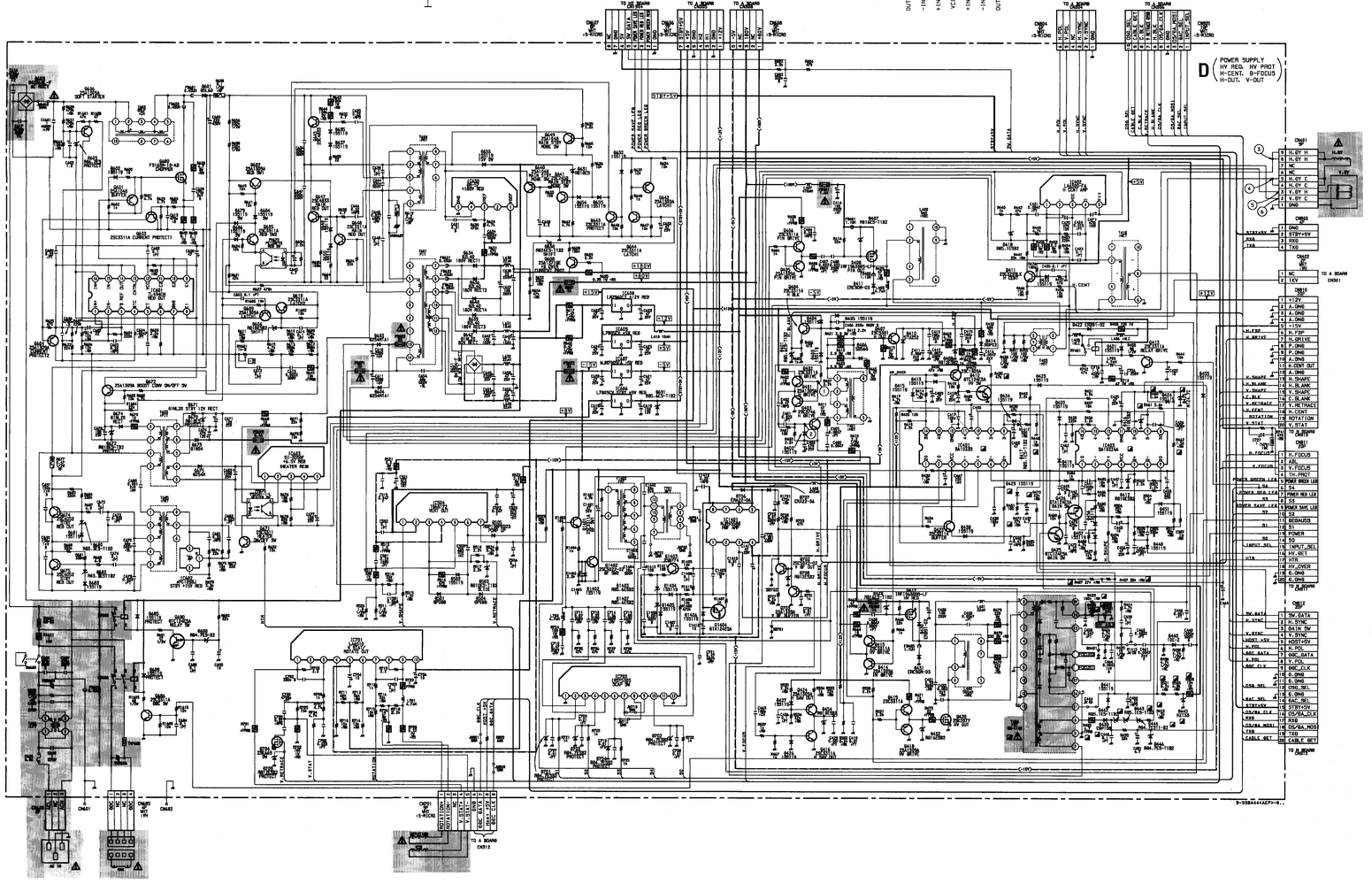


● D BOARD IC504 TDA8172



● D BOARD IC403 BA10324A





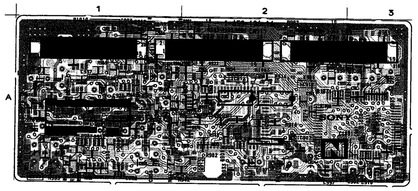
(2) Schematic Diagrams of A, N Boards

● N BOARD VOLTAGE LIST

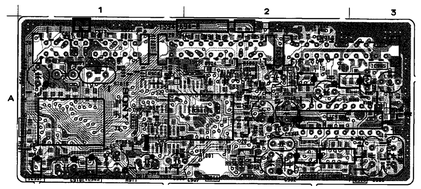
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC902	3	0.2		10	5.0
	4	2.5		11	0.5
	6	0.4		12	0.1
	7	0.4		13	4.5
	9	1.3	Q901	B	5.1
	11	1.3		E	5.1
	12	4.5	Q902	B	5.1
	13	1.3		E	5.1
	14	0.4	Q903	B	0.4
IC911	1	5.0		E	0.4
	2	4.8	Q905	B	1.1
	3	0.3		E	0.7
	6	0.1	Q905	B	1.1
	9	4.9		E	0.7
	11	0.3	Q908	C	5.0
	12	4.9	Q910	G	0.4
	13	5.0		D	*
IC912	1	0.3	Q912	B	0.2
	2	4.7		C	6.7
	3	4.7			
	4	5.0			
	5	−0.2			
	6	0			
	8	0.3			
	9	0.3			

N SYSTEM CONT / EEP ROM / POWER SAVE

— N BOARD (Conductor side) —



— N BOARD (Component side) —



* : Pattern from the side which separates the foil.
* ▒▒▒ : Pattern of the rear side.

● N BOARD SEMICONDUCTOR LOCATION

IC	(Conductor Side)	(Component Side)
IC901	A–1	
IC902	A–2	
IC903		A–1
IC904		A–1
IC905		A–3
IC906		A–2
IC907		A–1
IC908	A–3	A–2
IC909		A–2
IC911	A–2	
IC912	A–2	
IC913	A–1	A–2

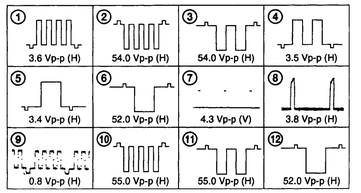
TRANSISTOR	(Conductor Side)	(Component Side)	*
Q901	A–1		①
Q902	A–1		①
Q903	A–2		①
Q904		A–1	②
Q905	A–1		①
Q907		A–3	②
Q908	A–3		①

	(Conductor Side)	(Component Side)	*
Q909	A–2		②
Q910		A–1	②
Q911		A–2	②
Q912	A–2		①

DIODE	(Conductor Side)	(Component Side)	*
D901	A–2		②
D902		A–3	②
D903		A–1	②
D904		A–2	②
D905		A–2	②
D906		A–3	②
D907	A–1		①
D908		A–2	②
D909		A–2	②
D917	A–2		①
D920	A–3		①

CRYSTAL	(Conductor Side)	(Component Side)
X901	A–2	A–1

● A BOARD WAVEFORMS

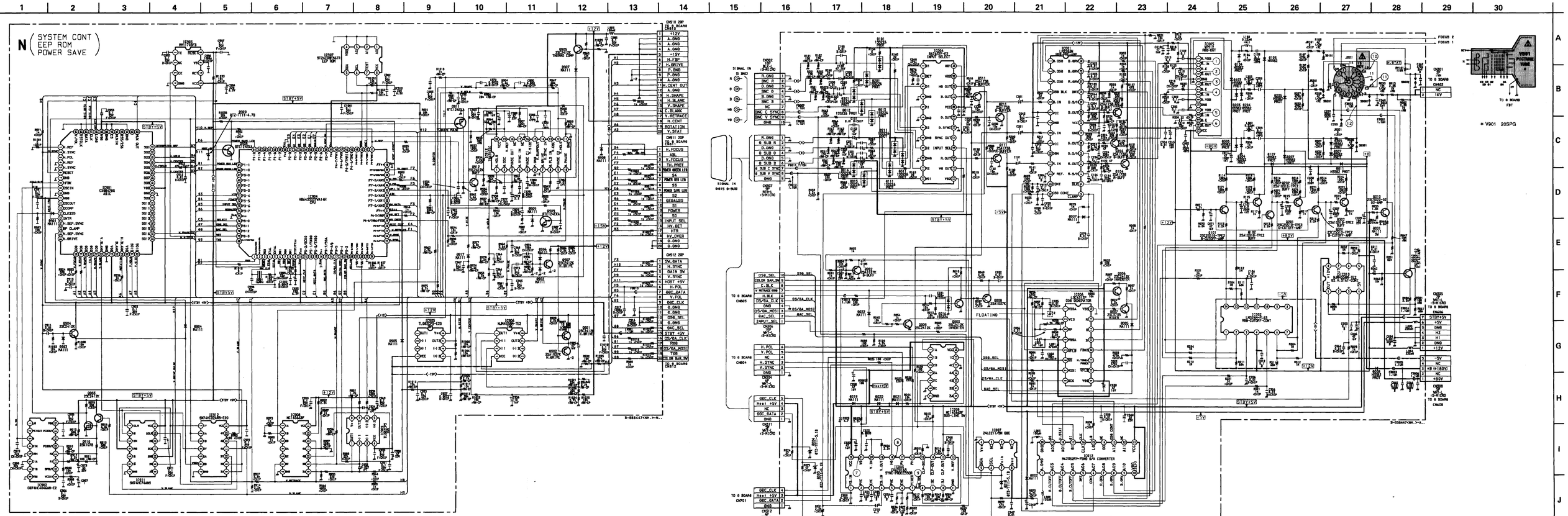


● A BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC001	1	0		14	4.9	IC007	5	0.5	Q102	B	91.1
	2	0		15	0		6	4.3		C	0.8
	3	0		16	5.0		7	0		E	91.6
	4	0		17	5.0						
	5	2.3		18	0.7	Q002	B	2.5	Q104	B	1.9
	11	2.2		19	1.3		E	3.1		E	2.7
	12	2.0		20	1.3	Q003	B	0	Q201	B	7.0
	13	1.8		21	0.3		C	2.7		C	95.0
	14	1.5								E	6.4
	15	3.8	IC005	1	9.8	Q004	B	3.5	Q202	B	95.0
	16	4.5		2	2.7		C	0		C	0.7
	17	7.2		3	2.0	Q005	B	0		E	95.6
	18	1.9		4	49.9		C	4.9			
	19	7.2		6	51.4				Q204	B	1.8
	20	1.8		7	1.9	Q006	B	−0.7		E	2.6
	23	1.9		8	2.6		C	2.5			
	24	7.2		9	9.8				Q301	B	7.0
	25	0.9		11	9.9	Q007	B	0.7		C	97.8
	26	3.1		12	2.6		C	0.2		E	6.5
	27	3.1		13	1.9						
	28	3.0		14	51.0	Q008	B	4.6	Q302	B	97.8
IC003	1	7.2	IC006	1	0		E	*		C	0.6
	2	0.2		2	1.5	Q010	B	9.5		E	98.4
	3	3.7		3	1.5		C	319.3	Q304	B	1.9
	4	4.2		5	2.6		E	9.0		E	2.6
	5	0.5		6	4.7						
	6	2.6		7	4.8	Q060	B	10.8	J001	KR	64.8
	7	1.5		8	4.8		C	301.2		KG	69.7
	8	5.0		10	3.5		E	10.2		KB	72.7
	9	1.3		12	0					G2	324.0
	10	1.3		13	0	Q101	B	7.0		H1	6.2
	12	3.2		14	0		C	91.1			
	13	0.3		15	0		E	6.4			

Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector / Base / Emitter	
②	Transistor	—	Collector / Base / Emitter	
③	Diode		Cathode / Anode	
④	Transistor (FET)		Source / Drain / Gate	
–	Discrete semiconductor			

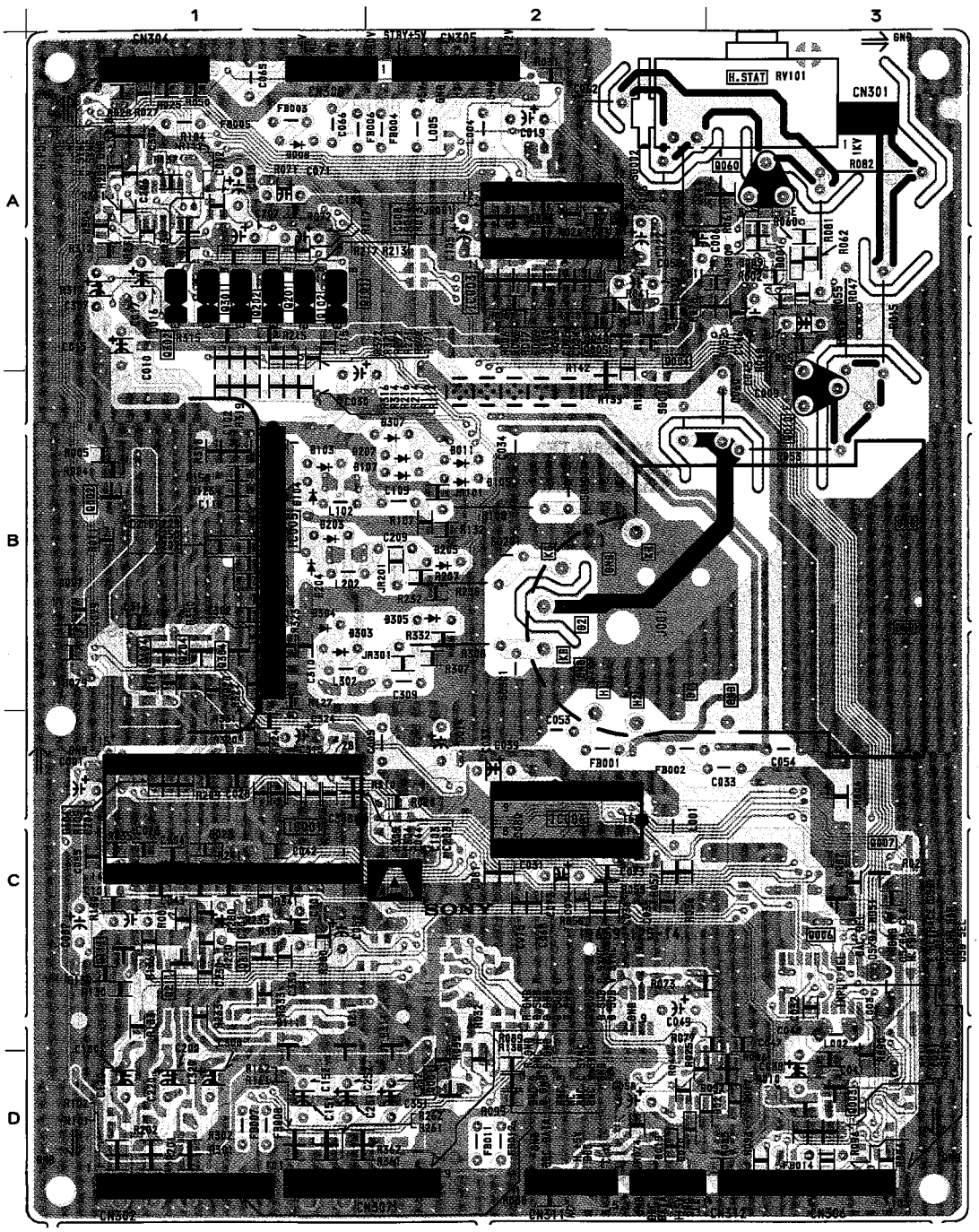


Schematic diagram ← D board

Schematic diagrams A N boards →

A [VIDEO AMP, RGB OUT]

— A BOARD (Conductor side) —



EO AMP,
B OUT

— A BOARD (Component side) —

SEMICONDUCTOR LOCATION

	(Component Side)
	C–3
	A–3
	A–2
	C–3
	B–3
	C–2
	C–1
	D–1
	A–1
	C–1
TOR	
	(Component Side) *
	①
	①
	①
	①
D–1	②
C–1	②
B–1	–
A–1	–
A–2	–
A–2	–
	①
	①
A–3	–
A–3	–
	①
	①
A–3	–
A–3	–
	①
	①
	(Component Side) *
	③

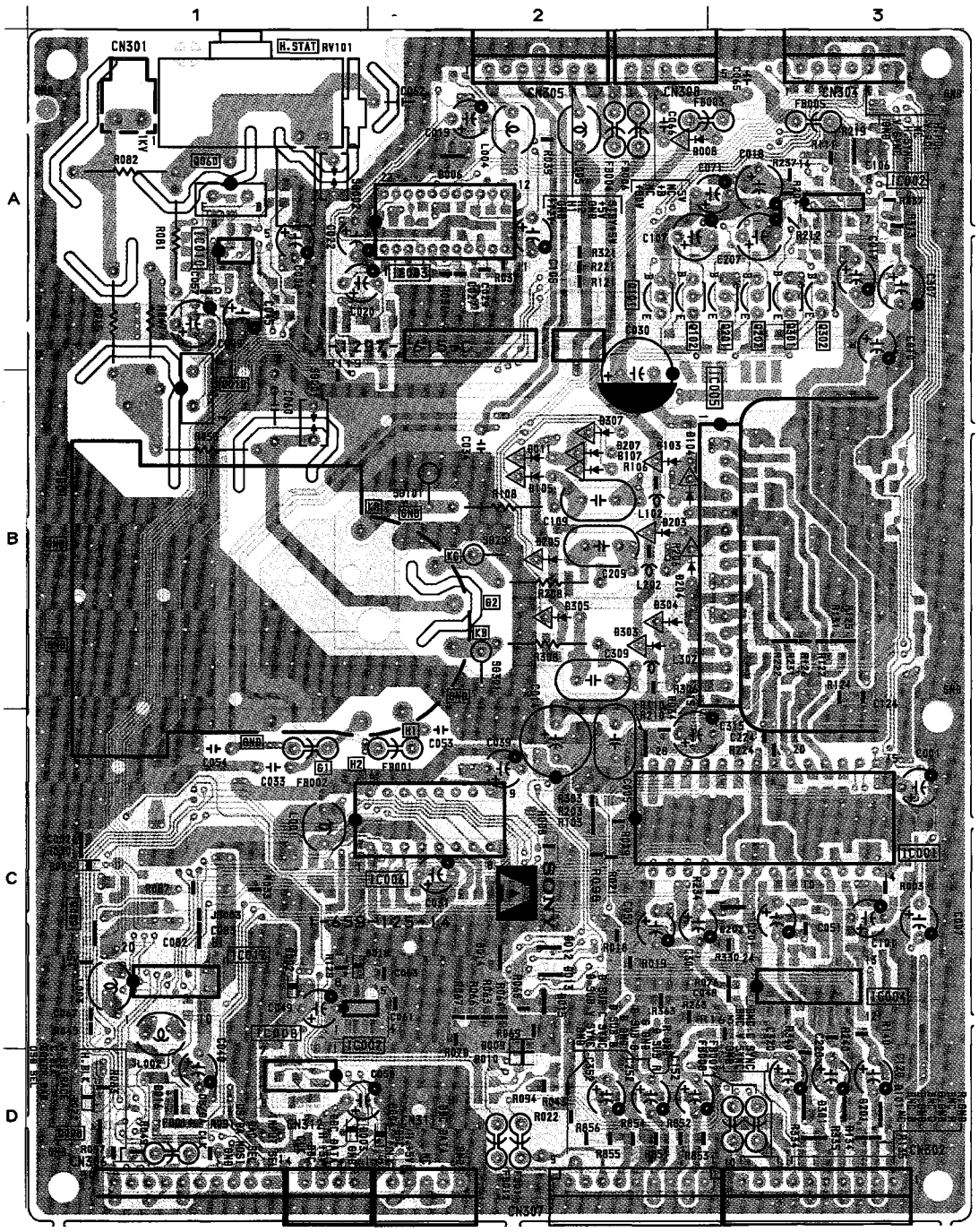
D002		C–1	③
D003		D–1	③
D004		D–2	③
D005		C–1	③
D007	B–1		③
D008	A–1	A–2	–
D011	B–2	B–2	–
D012		C–2	⑤
D013		C–2	⑤
D014		C–2	⑤
D015		C–2	⑤
D016		D–1	⑤
D018		C–1	③
D019	D–2		③
D020	D–2		③
D021	D–2		③
D022		D–1	③
D101		D–3	⑤
D103	B–1	B–2	–
D104	B–1	B–2	–
D105	B–2	B–2	–
D107	B–1	B–2	–
D111	C–1		④
D201		D–3	⑤
D203	B–1	B–2	–
D204	B–1	B–2	–
D205	B–2	B–2	–
D207	B–1	B–2	–
D211	C–1		④
D301		D–3	⑤
D303	B–1	B–2	–
D304	B–1	B–2	–
D305	B–2	B–2	–
D307	B–2	B–2	–
D311	C–2		④

VARIABLE RESISTOR

	(Conductor Side)	(Component Side)
RV101	A–3	A–1

e of semiconductors in silk screen (*)

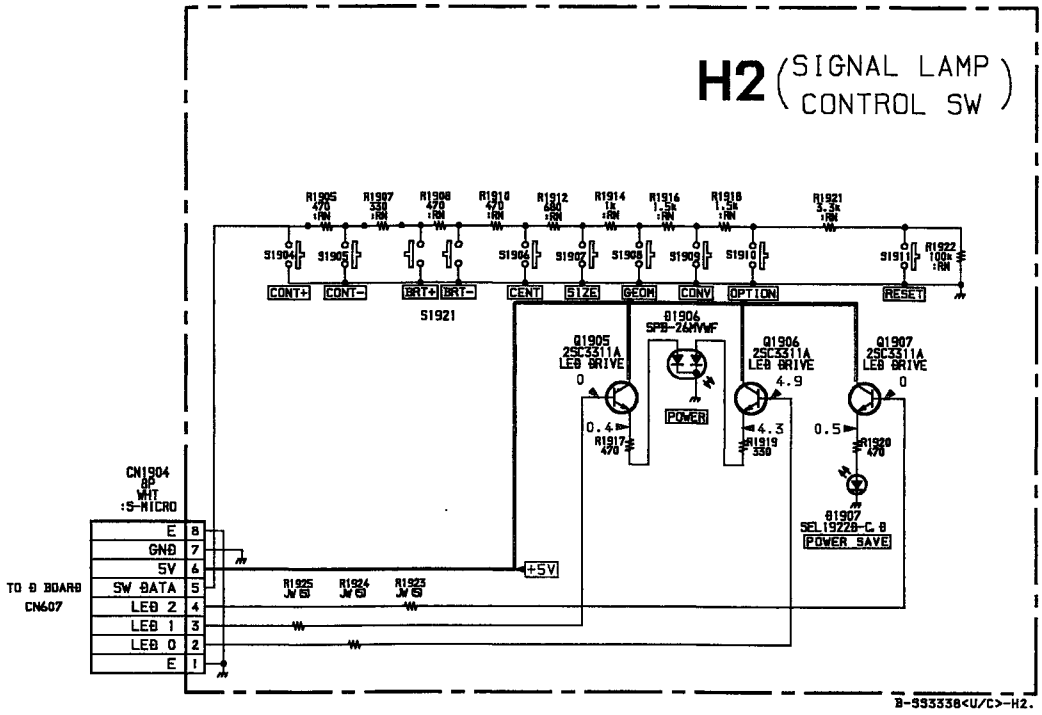
Printed symbol	Terminal name	Circuit
T	Collector / Base T Emitter	
—	Collector / Base Emitter	
日	Cathode — 日 — Anode	
T	Common / Anode T Cathode	
—	Common / Anode Cathode	
nductor		



▫ ▒▒▒ : Pattern from the side which enables seeing.
• ▒▒▒ : Pattern of the rear side.

H2 [SIGNAL LAMP CONTROL SW]

(3) Schematic Diagram of H2 Board

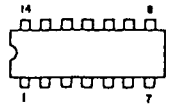


— H2 BOARD —

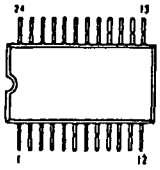
Schematic diagram
H2 board

5-4. SEMICONDUCTORS

BA10324
BA10324A
BA10339



BA7657F-E2



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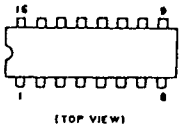
CD74HC4046AM-E2/SO
LSC4312P
TL494CN



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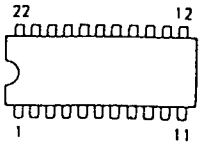

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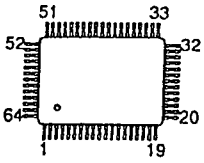
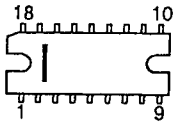


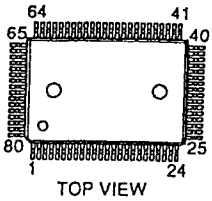
TOP VIEW

DM-57



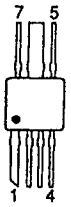
TOP VIEW

HD6433337WA14H



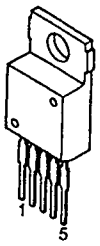
TOP VIEW

IRSY5305



MARKING SIDE VIEW

LA6500-FA



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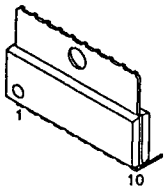

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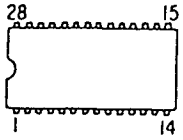

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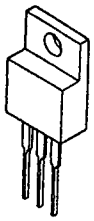

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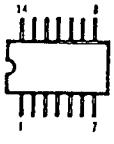
SN74HC02ANS-E20
SN74HC74ANS
SN74HC74ANS-E20



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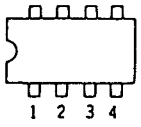

(Top view)

M62352FP
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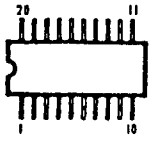

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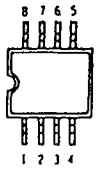

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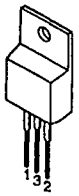

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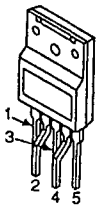

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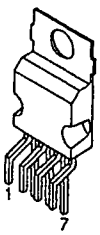

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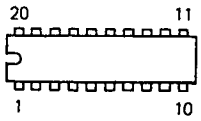
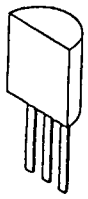


(Top view)

µPC1093J



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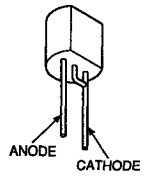
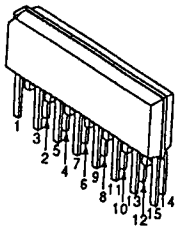


VPS12



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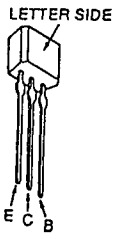

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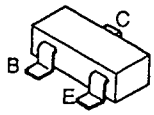

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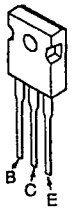

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IRFI9630GS-LF
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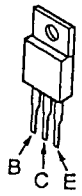
2SC4686A(LB SONY)
2SC5022-02



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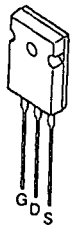
2SK2077(LB SONY)



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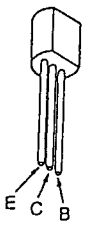
2SA1371DE-AE
2SC2551-O



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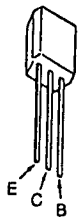

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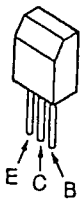
2SD774-34



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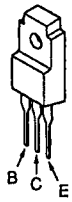

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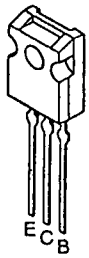
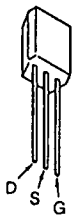
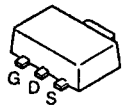


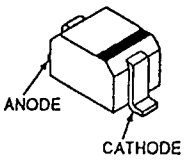
2SK669



2SK1078



DTZ-TT11-4.7B
DTZ-TT11-5.1B
DTZ4.7C
DTZ5.1B
MA111
UDZ-TE-17-4.7B
UDZ-TE-17-5.1B



D1NL20-TR
D1NS4
EGP10G
ERA22-06
MTZJ-T-77-4.7C
MTZJ-4.7C
RD10ES-B2
RD12ES-B2
RD16ES-B2
RD16ES-B3
RD18ES-B2
RD24ES-B2
RD24ES-B3
RD3.3ES-B2
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RD5.1ES-B2
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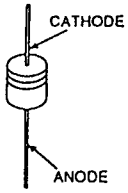
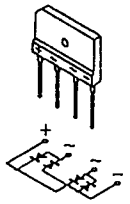
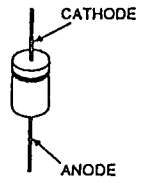
RD6.2ES-B2
RD9.1ES-B2
1SS119-25



D2L40-TA
D4SBS4-F
D4SB60L-F

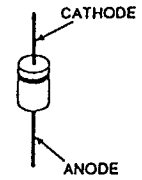


D2S4MF
D2S4MTA1
EGP20G
ERA22-06
ERA22-08
ERB91-02
GP08D
GP08DPKG23
HSS82
HZT33-02
RGP02-20EL-6394
RGP15G
10E2

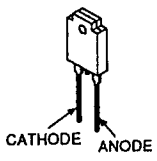


D5L60

EGP10D
S2LA20F



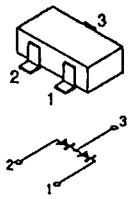
ERC90M-03



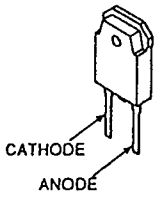
PC123F2
PC123FY2
PS2501-1-L

SB560

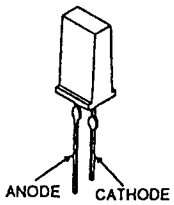
1SS226



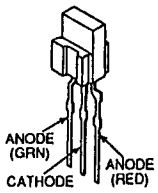
5TUZ52



SEL1922D-C
SEL1922D-C,D



SPB-26MVWF



SECTION 6
EXPLODED VIEWS

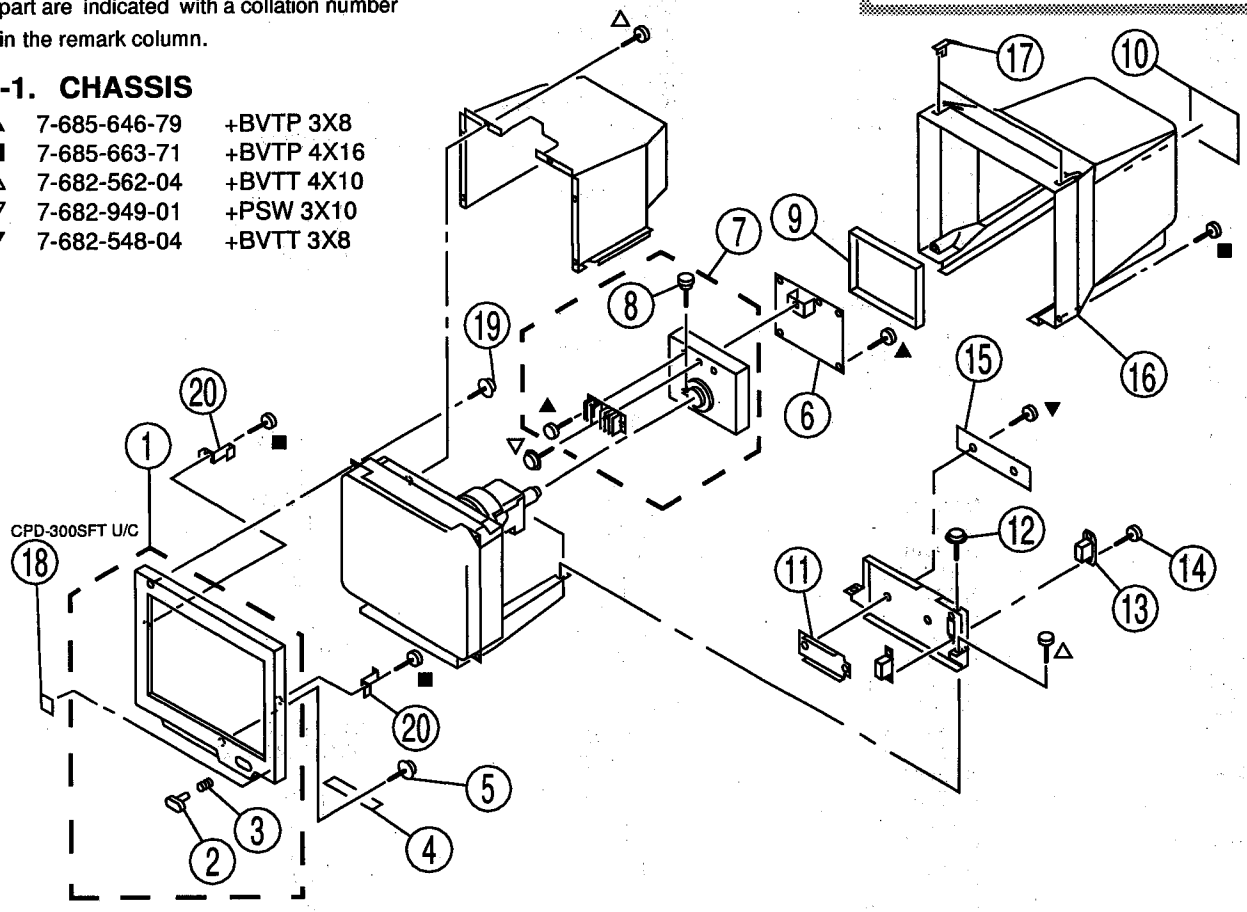
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS

▲ 7-685-646-79 +BVTP 3X8
■ 7-685-663-71 +BVTP 4X16
△ 7-682-562-04 +BVTT 4X10
▽ 7-682-949-01 +PSW 3X10
▼ 7-682-548-04 +BVTT 3X8



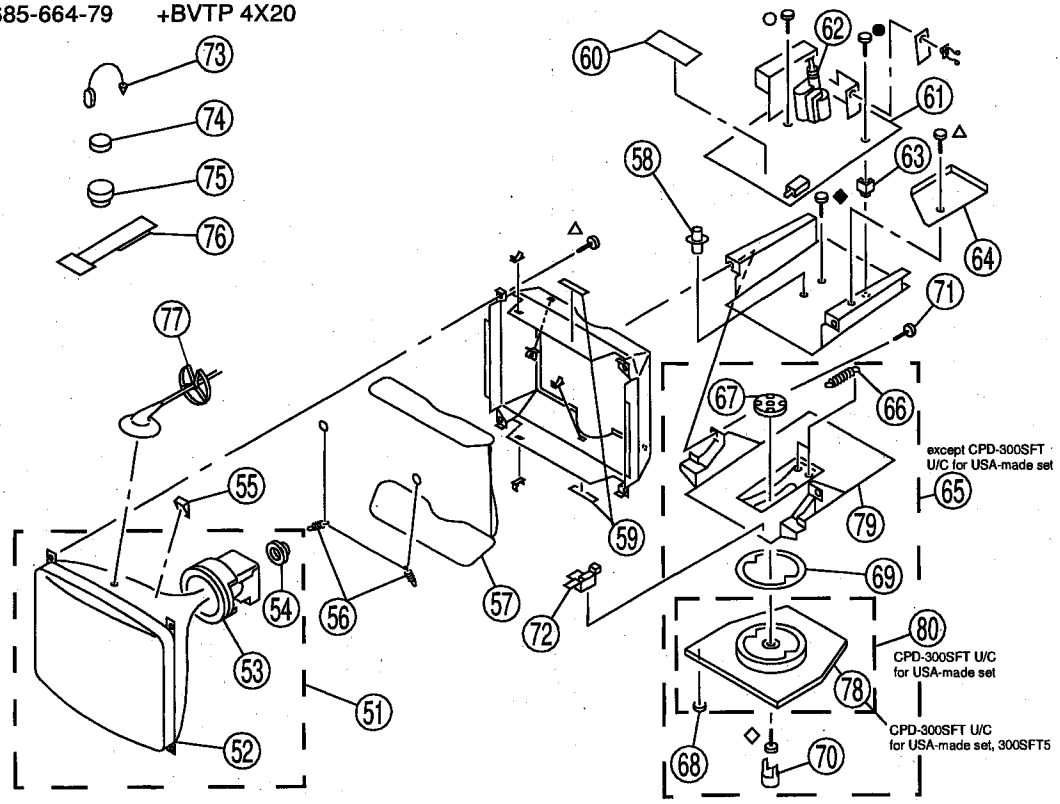
REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4034-047-1	BEZEL ASSY (300SFT U/C for Japan-made set, AUS, ES)	2,3
	X-4034-049-1	BEZEL ASSY (300SFT5)	2,3
	X-4034-050-1	BEZEL ASSY (300SFT U/C for USA-made set)	2,3
2	4-051-699-11	BUTTON, POWER (300SFT U/C for Japan-made set, AUS, ES)	
	4-052-488-11	BUTTON, POWER (300SFT U/C for USA-made set)	
	4-053-036-21	BUTTON, POWER (300SFT5)	
3	4-872-085-01	SPRING, COMPRESSIOM (except 300SFT U/C for USA-made set)	
	4-872-085-11	SPRING, COMPRESSIOM (300SFT U/C for USA-made set)	
4	*8-933-167-00	H2 BOARD, COMPLETE	
5	4-029-432-01	SCREW (3X12), (+) BVWHTP	
6	*8-933-153-00	A BOARD, COMPLETE	
7	X-4033-078-1	VIDEO BLOCK ASSY (except 300SFT U/C for USA-made set)	8
	*X-4033-434-1	VIDEO BLOCK ASSY (300SFT U/C for USA-made set)	8
8	4-041-627-01	SCREW (M4X20), HEXAGON HEAD	
9	*4-050-693-01	SHIELD, VIDEO (except 300SFT U/C for USA-made set)	
	*4-050-693-11	SHIELD, VIDEO (300SFT U/C for USA-made set)	
10	*4-051-128-41	LABEL, INFORMATION (300SFT U/C for Japan-made set, ES)	
10	*4-051-128-51	LABEL, INFORMATION (300SFT AUS)	
	*4-052-003-21	LABEL, INFORMATION (300SFT U/C for USA-made set)	
	*4-054-515-21	LABEL, INFORMATION (300SFT5)	
11	1-694-062-11	TERMINAL BOARD ASSY, I/O	
12	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)	
13	⚠1-251-382-22	INLET, AC 3P (WITH NOISE FILTER) (300SFT U/C for USA-made set, 300SFT5)	
	⚠1-251-411-11	INLET, AC 3P (300SFT U/C for Japan-made set, AUS, ES)	
14	4-052-345-01	SCREW, (3X8) (+K), TAPPING	
15	*4-053-310-11	SHEET, CONNECTOR	
16	4-051-441-01	CABINET (300SFT U/C for Japan-made set, AUS, ES)	
	4-052-494-01	CABINET (300SFT U/C for USA-made set)	
	4-052-498-21	CABINET (300SFT5)	
17	4-051-442-01	COVER, SCREW (300SFT U/C for Japan-made set, AUS, ES)	
	4-052-487-01	COVER, SCREW (300SFT U/C for USA-made set)	
	4-052-497-21	COVER, SCREW (300SFT5)	
18	*4-045-471-01	LABEL, ENERGY STAR (300SFT U/C)	
19	4-365-808-01	SCREW (5), TAPPING	
20	*4-051-566-01	HOOK (20) (except 300SFT U/C for USA-made set)	
	*4-051-566-11	HOOK (20) (300SFT U/C for USA-made set)	

6-2. PICTURE TUBE

● 7-685-647-79 +BVTP 3X10
◆ 7-685-661-14 +BVTP 4X12
○ 7-685-650-79 +BVTP 3X16
△ 7-682-562-04 +BVTT 4X10
◇ 7-685-664-79 +BVTP 4X20

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.



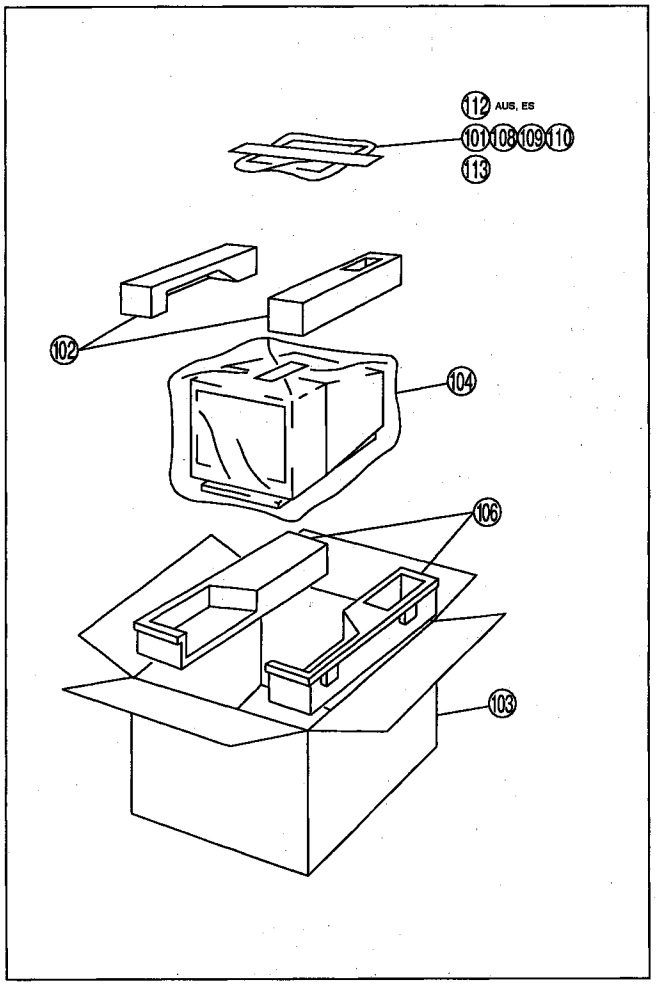
REF.NO.	PART NO.	DESCRIPTION	REMARK
51	⚠8-736-131-91	ITC ASSY (20SPG-R1) (except 300SFT AUS)	52-54
	⚠8-736-132-91	ITC ASSY (20SPG-RS1) (300SFT AUS)	52-54
52	⚠8-736-131-05	PICTURE TUBE (20SPG) (except 300SFT AUS)	
	⚠8-736-132-05	PICTURE TUBE (20SPG (S)) (300SFT AUS)	
53	⚠1-451-438-12	DEFLECTION YOKE, TRINTRON COLOR (except 300SFT AUS)	
	⚠1-451-438-21	DEFLECTION YOKE, TRINTRON COLOR (300SFT AUS)	
54	⚠8-453-006-21	NECK ASSY, PICTURE TUBE (NA3013-M2)	
55	4-040-897-01	SPACER, DY	
56	4-369-318-00	SPRING, TENSION (300SFT)	
	4-369-318-31	SPRING, TENSION (300SFT5)	
57	⚠1-406-790-71	COIL, DEMAGNETIZATION	
58	*4-303-473-00	SUPPORT, PC	
59	*9-911-844-99	CUSHION	
60	*8-933-155-00	N BOARD, COMPLETE (300SFT U/C for USA-made set, 300SFT5)	
	*8-933-212-00	N BOARD, COMPLETE (300SFT U/C for Japan-made set, AUS, ES)	
61	*8-933-166-00	D BOARD, COMPLETE	
62	⚠X-4033-530-1	TRANSFORMER ASSY, FLYBACK (NX-4140//J1A4)	
63	*4-382-848-01	HOLDER, PCB	
64	*4-051-908-01	SHIELD (D3)	
65	X-4033-198-1	STAND ASSY (300SFT U/C for Japan-made set, AUS, ES)	66-70,79
	X-4033-735-1	STAND ASSY (300SFT5)	66-70,78,79
66	4-046-901-01	SPRING, TENSION	
67	4-050-692-01	STOPPER (A) (except 300SFT U/C for USA-made set)	
67	*4-050-692-11	STOPPER (A) (300SFT U/C for USA-made set)	
68	4-047-474-01	FOOT, RUBBER	
69	*4-041-625-01	RING, TILT SWIVEL (except 300SFT U/C for USA-made set)	
	*4-041-625-21	RING, TILT SWIVEL (300SFT U/C for USA-made set)	
70	4-041-621-01	STOPPER (B) (except 300SFT U/C for USA-made set)	
	*4-041-621-21	STOPPER (B) (300SFT U/C for USA-made set)	
71	4-389-025-11	SCREW (M4) (EXT TOOTH WASHER)	
72	4-051-438-01	SLIDER (except 300SFT U/C for USA-made set)	
	4-051-438-11	SLIDER (300SFT U/C for USA-made set)	
73	4-308-870-00	CLIP, LEAD WIRE	
74	1-452-032-00	MAGNET, DISK ; 10mmϕ	
75	1-452-094-01	MAGNET, ROTATABLE DISK ; 15mmϕ	
76	X-4030-584-1	PERMALLOY ASSY, CORRECTION	
77	3-704-372-31	HOLDER, HV CABLE (300SFT U/C for USA-made set)	
	*3-704-372-01	HOLDER, HV CABLE (except 300SFT U/C for USA-made set)	
78	4-051-183-11	BASE, STAND (300SFT5)	
	4-051-240-11	BASE, STAND (300SFT U/C for USA-made set)	
79	4-051-443-01	COVER, BOTTOM (300SFT U/C for Japan-made set, AUS, ES)	
	4-052-492-01	COVER, BOTTOM (300SFT U/C for USA-made set)	
	4-052-499-21	COVER, BOTTOM (300SFT5)	
80	*X-4033-293-1	STAND BASE ASSY (300SFT U/C for USA-made set)	78

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

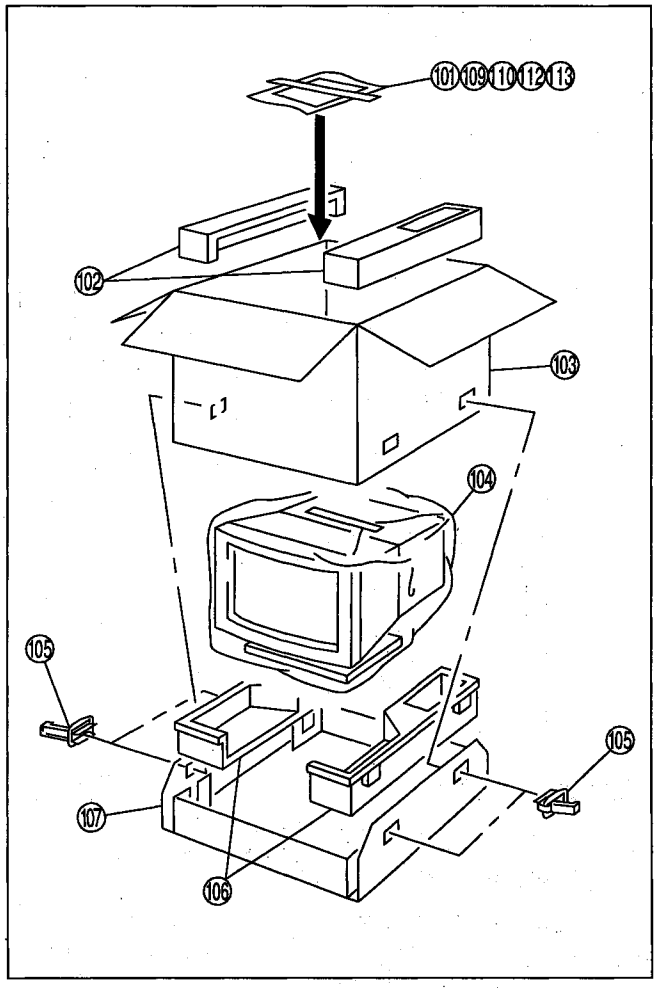
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

6-3. PACKING MATERIALS

CPD-300SFT



CPD-300SFT5



REF.NO.	PART NO.	DESCRIPTION	REMARK
101	3-858-485-11	MANUAL, INSTRUCTION (300SFT U/C for Japan-made set, AUS, ES)	
	3-858-485-21	MANUAL, INSTRUCTION (300SFT U/C for USA-made set)	
	3-858-485-31	MANUAL, INSTRUCTION (300SFT5)	
102	*4-051-452-01	CUSHION (UPPER) (ASSY) (300SFT U/C for Japan-made set, AUS, ES)	
	*4-053-444-01	CUSHION (UPPER) (ASSY) (300SFT U/C for USA-made set)	
	*4-053-452-01	CUSHION (UPPER) (ASSY) (300SFT5)	
103	*4-056-871-01	INDIVIDUAL CARTON (300SFT U/C for USA-made set)	
	*4-056-872-01	INDIVIDUAL CARTON (300SFT5)	
	*4-056-154-01	INDIVIDUAL CARTON (300SFT U/C for Japan-made set, AUS, ES)	
104	*4-041-927-31	BAG, POLYETHYLENE (300SFT U/C for Japan-made set, AUS, ES)	
	*4-047-293-01	BAG, POLYETHYLENE (300SFT U/C for USA-made set)	
	*4-368-079-01	BAG, POLYETHYLENE (300SFT5)	
105	*4-396-077-01	JOINT (300SFT5)	
106	*4-051-453-01	CUSHION (LOWER) (ASSY) (300SFT U/C for USA-made set, AUS, ES)	
	*4-053-445-01	CUSHION (LOWER) (ASSY) (300SFT U/C for USA-made set)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
106	*4-053-453-01	CUSHION (LOWER) (ASSY) (300SFT5)	
107	*4-053-458-01	TRAY (300SFT5)	
108	1-774-332-11	ADAPTOR (for Macintosh, with SW) (300SFT U/C for Japan-made set Ser.No. 2,100,001~2,100,200)	
	1-573-983-31	ADAPTOR (for Macintosh, without SW) (300SFT U/C for Japan-made set Ser.No. 2,100,201 and later) (300SFT U/C for USA-made set, AUS, ES)	
	1-774-626-11	ADAPTOR (for Macintosh, with SW) (300SFT5)	
109	⚠1-765-717-11	CORD SET, POWER 10A/250V (300SFT5 AEP)	
	⚠1-765-718-11	CORD SET, POWER 10A/125V (300SFT U/C, ES)	
	⚠1-558-481-12	CORD SET, POWER 10A/250V (300SFT AUS)	
	⚠1-775-706-11	CORD SET, POWER (300SFT5 UK)	
110	1-777-743-11	CABLE ASSY (15P DSUBX2 CONNECTOR)	
112	1-774-648-21	ADAPTOR (for VGA) (300SFT AUS, ES, 300SFT5)	
113	4-056-772-01	DISK (WINDOWS 95) 3.5" FD	

SECTION 7
ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ⊠ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
  MF : μF
- COILS
  MMH : mH
  UH : μH

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*8-933-153-00	A BOARD, COMPLETE			
		**********			
	7-682-950-01	SCREW +PSW 3X12 (IC005)			
	<CAPACITOR>				
C001	1-107-909-11	ELECT	47MF	20%	16V
C002	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C003	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C004	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C005	1-137-528-11	FILM	0.1MF	10%	250V
C006	1-126-967-11	ELECT	47MF	20%	16V
C007	1-107-907-11	ELECT	22MF	20%	25V
C008	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C009	1-104-665-11	ELECT	100MF	20%	25V
C010	1-107-909-11	ELECT	47MF	20%	16V
C011	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C012	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C013	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C014	1-107-932-11	ELECT	47MF	20%	100V
C015	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C019	1-126-963-11	ELECT	4.7MF	20%	50V
C020	1-126-963-11	ELECT	4.7MF	20%	50V
C021	1-163-001-11	CERAMIC CHIP	220pF	10%	50V
C022	1-126-967-11	ELECT	47MF	20%	16V
C023	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C024	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C025	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C027	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C028	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C030	1-107-746-11	ELECT	10MF	20%	200V
C031	1-126-967-11	ELECT	47MF	20%	16V
C032	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C033	1-102-030-00	CERAMIC	330pF	10%	500V
C034	1-162-318-11	CERAMIC	0.001MF	10%	500V
C035	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C036	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C038	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C039	1-126-967-11	ELECT	47MF	20%	16V
C040	1-128-551-11	ELECT	22MF	20%	25V
C042	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C043	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C044	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C047	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C048	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C049	1-124-903-11	ELECT	1MF	20%	50V
C050	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C051	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C052	1-126-967-11	ELECT	47MF	20%	16V
C053	1-517-499-21	GAP, SPARK			
C055	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C058	1-126-967-11	ELECT	47MF	20%	16V
C060	1-162-114-00	CERAMIC	0.0047MF		2KV
C062	1-162-134-11	CERAMIC	470pF	10%	2KV
C064	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C065	1-162-318-11	CERAMIC	0.001MF	10%	500V
C066	1-162-318-11	CERAMIC	0.001MF	10%	500V
C068	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C071	1-107-909-11	ELECT	47MF	20%	16V
C079	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C100	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C101	1-107-902-11	ELECT	1MF	20%	50V
C102	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C103	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C104	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C105	1-124-903-11	ELECT	1MF	20%	50V
C106	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C107	1-107-949-11	ELECT	2.2MF	20%	200V
C109	1-137-528-11	FILM	0.1MF	10%	250V
C110	1-163-239-11	CERAMIC CHIP	33pF	5%	50V
C120	1-126-967-11	ELECT	47MF	20%	16V
C124	1-163-125-00	CERAMIC CHIP	220pF	5%	50V
C130	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C151	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C152	1-126-967-11	ELECT	47MF	20%	16V
C200	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C201	1-107-902-11	ELECT	1MF	20%	50V
C202	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C203	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C204	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C206	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C207	1-107-949-11	ELECT	2.2MF	20%	200V
C209	1-137-528-11	FILM	0.1MF	10%	250V
C210	1-163-239-11	CERAMIC CHIP	33pF	5%	50V

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Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C220	1-126-967-11	ELECT 47MF 20% 16V	
C224	1-163-125-00	CERAMIC CHIP 220pF 5% 50V	
C230	1-163-227-11	CERAMIC CHIP 10pF 0.5pF 50V	
C251	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C252	1-126-967-11	ELECT 47MF 20% 16V	
C300	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C301	1-107-902-11	ELECT 1MF 20% 50V	
C302	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C303	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C304	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C306	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C307	1-107-949-11	ELECT 2.2MF 20% 200V	
C309	1-137-528-11	FILM 0.1MF 10% 250V	
C310	1-163-239-11	CERAMIC CHIP 33pF 5% 50V	
C314	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C315	1-104-653-11	ELECT 220MF 20% 16V	
C320	1-126-967-11	ELECT 47MF 20% 16V	
C324	1-163-125-00	CERAMIC CHIP 220pF 5% 50V	
C330	1-163-227-11	CERAMIC CHIP 10pF 0.5pF 50V	
C351	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C352	1-126-967-11	ELECT 47MF 20% 16V	
		<CONNECTOR>	
CN301*	1-766-179-11	PIN, CONNECTOR (PC BOARD) 2P	
CN302*	1-564-525-11	PLUG, CONNECTOR 10P	
CN304*	1-564-521-11	PLUG, CONNECTOR 6P	
CN305*	1-564-522-11	PLUG, CONNECTOR 7P	
CN306*	1-564-525-11	PLUG, CONNECTOR 10P	
CN307*	1-564-524-11	PLUG, CONNECTOR 9P	
CN308*	1-564-520-11	PLUG, CONNECTOR 5P	
CN311*	1-564-520-11	PLUG, CONNECTOR 5P	
CN312*	1-564-519-11	PLUG, CONNECTOR 4P	
		<DIODE>	
D001	8-719-404-49	DIODE MA111	
D002	8-719-404-49	DIODE MA111	
D003	8-719-976-99	ZENER DIODE DTZ5.1B	
D004	8-719-976-99	ZENER DIODE DTZ5.1B	
D005	8-719-404-49	DIODE MA111	
D007	8-719-404-49	DIODE MA111	
D008	8-719-970-83	DIODE HSS82	
D011	8-719-970-83	DIODE HSS82	
D012	8-719-800-76	DIODE 1SS226	
D013	8-719-800-76	DIODE 1SS226	
D014	8-719-800-76	DIODE 1SS226	
D015	8-719-800-76	DIODE 1SS226	
D016	8-719-800-76	DIODE 1SS226	
D018	8-719-976-99	ZENER DIODE DTZ5.1B	
D019	8-719-404-49	DIODE MA111	
D020	8-719-404-49	DIODE MA111	
D021	8-719-404-49	DIODE MA111	
D022	8-719-404-49	DIODE MA111	
D101	8-719-800-76	DIODE 1SS226	
D103	8-719-970-83	DIODE HSS82	
D104	8-719-970-83	DIODE HSS82	
D105	8-719-970-83	DIODE HSS82	
D107	8-719-970-83	DIODE HSS82	
D111	8-719-800-76	DIODE 1SS226	
D201	8-719-800-76	DIODE 1SS226	
D203	8-719-970-83	DIODE HSS82	
D204	8-719-970-83	DIODE HSS82	
D205	8-719-970-83	DIODE HSS82	
D207	8-719-970-83	DIODE HSS82	
D211	8-719-800-76	DIODE 1SS226	
D301	8-719-800-76	DIODE 1SS226	
D303	8-719-970-83	DIODE HSS82	
D304	8-719-970-83	DIODE HSS82	
D305	8-719-970-83	DIODE HSS82	
D307	8-719-970-83	DIODE HSS82	
D311	8-719-800-76	DIODE 1SS226	
		<FERRITE BEAD>	
FB001	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB002	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB003	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB004	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB005	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB006	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB007	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB008	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB011	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB012	1-412-911-11	INDUCTOR, FERRITE BEAD	
FB014	1-412-911-11	INDUCTOR, FERRITE BEAD	
		<IC>	
IC001	8-759-358-83	IC LM2283N	
IC002	8-759-502-82	IC LM324M	
IC003	8-752-073-52	IC CXA2016S	
IC004	8-759-360-07	IC BA7657F-E2	
IC005	8-749-011-84	IC VPS12	
IC006	8-759-359-03	IC LSC4312P	
IC007	8-759-370-08	IC 24LC21T/SN	
IC008	8-759-008-67	IC MC14066BF	
IC010	8-759-100-96	IC UPC4558G2	
IC012	8-759-044-65	IC M62352FP	
		<JACK>	
J001	⚠ 1-251-116-12	SOCKET, PICTURE TUBE	
		<CHIP CONDUCTOR>	
JR001	1-216-295-91	CONDUCTOR, CHIP	
JR002	1-216-295-91	CONDUCTOR, CHIP	
JR101	1-216-295-91	CONDUCTOR, CHIP	
JR201	1-216-295-91	CONDUCTOR, CHIP	
JR301	1-216-295-91	CONDUCTOR, CHIP	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		<COIL>			
L001	1-410-682-31	INDUCTOR	470UH		
L002	1-410-645-31	INDUCTOR	100UH		
L003	1-410-645-31	INDUCTOR	100UH		
L004	1-410-678-31	INDUCTOR	220UH		
L005	1-410-678-31	INDUCTOR	220UH		
L102	1-414-137-31	INDUCTOR	0.22UH		
L202	1-414-137-31	INDUCTOR	0.22UH		
L302	1-414-137-31	INDUCTOR	0.22UH		
		<TRANSISTOR>			
Q002	8-729-216-22	TRANSISTOR	2SA1162-G		
Q003	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q006	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q007	8-729-140-47	TRANSISTOR	2SC3735-L-B35		
Q008	8-729-216-22	TRANSISTOR	2SA1162-G		
Q009	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q010	8-729-032-61	TRANSISTOR	2SC5022-02		
Q060	8-729-032-61	TRANSISTOR	2SC5022-02		
Q101	8-729-255-12	TRANSISTOR	2SC2551-O		
Q102	8-729-200-17	TRANSISTOR	2SA1091-O		
Q104	8-729-112-65	TRANSISTOR	2SA1462-Y33		
Q111	8-729-112-65	TRANSISTOR	2SA1462-Y33		
Q201	8-729-255-12	TRANSISTOR	2SC2551-O		
Q202	8-729-200-17	TRANSISTOR	2SA1091-O		
Q204	8-729-112-65	TRANSISTOR	2SA1462-Y33		
Q211	8-729-112-65	TRANSISTOR	2SA1462-Y33		
Q301	8-729-255-12	TRANSISTOR	2SC2551-O		
Q302	8-729-200-17	TRANSISTOR	2SA1091-O		
Q304	8-729-112-65	TRANSISTOR	2SA1462-Y33		
Q311	8-729-112-65	TRANSISTOR	2SA1462-Y33		
		<RESISTOR>			
R001	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R002	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R003	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R004	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R005	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R006	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R007	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R008	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R009	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R010	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R011	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R012	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R013	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R014	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R015	1-211-885-21	METAL	2.2M	5%	1W
R016	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R017	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R018	1-216-295-91	CONDUCTOR, CHIP			
R019	1-216-295-91	CONDUCTOR, CHIP			
R020	1-216-025-91	METAL GLAZE	100	5%	1/10W
R021	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R023	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R024	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R025	1-216-025-91	METAL GLAZE	100	5%	1/10W
R026	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R027	1-216-033-00	METAL GLAZE	220	5%	1/10W
R028	1-216-033-00	METAL GLAZE	220	5%	1/10W
R029	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R030	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R031	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R032	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R033	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R034	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R035	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R036	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R037	1-216-025-91	METAL GLAZE	100	5%	1/10W
R038	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R039	1-216-025-91	METAL GLAZE	100	5%	1/10W
R042	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R044	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R045	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R046	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R047	1-211-895-11	METAL	10M	10%	1/4W
R048	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R049	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R050	1-216-025-91	METAL GLAZE	100	5%	1/10W
R051	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R052	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R053	1-202-830-00	SOLID	10K	20%	1/2W
R054	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R055	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R056	1-218-768-11	METAL CHIP	470K	0.50%	1/10W
R057	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R058	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R059	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R060	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R061	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R062	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R063	1-216-025-91	METAL GLAZE	100	5%	1/10W
R064	1-216-025-91	METAL GLAZE	100	5%	1/10W
R067	1-216-025-91	METAL GLAZE	100	5%	1/10W
R068	1-216-025-91	METAL GLAZE	100	5%	1/10W
R071	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R072	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R073	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R074	1-216-017-91	METAL GLAZE	47	5%	1/10W
R075	1-216-017-91	METAL GLAZE	47	5%	1/10W
R076	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R077	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R078	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R079	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R080	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R081	1-211-895-11	METAL	10M	10%	1/4W
R082	1-211-885-21	METAL	2.2M	5%	1W
R083	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R084	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R085	1-216-049-91	METAL GLAZE	1K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R087	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R089	1-216-025-91	METAL GLAZE	100	5%	1/10W
R090	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R091	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R093	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R096	1-216-025-91	METAL GLAZE	100	5%	1/10W
R097	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R098	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R101	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R102	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R103	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R104	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R106	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R107	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R108	1-247-735-11	SOLID	47	20%	1/2W
R109	1-216-039-00	METAL GLAZE	390	5%	1/10W
R111	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R112	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R113	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R114	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R115	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R116	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R117	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R120	1-216-017-91	METAL GLAZE	47	5%	1/10W
R121	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R122	1-216-037-00	METAL GLAZE	330	5%	1/10W
R123	1-216-017-91	METAL GLAZE	47	5%	1/10W
R124	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R125	1-216-041-00	METAL GLAZE	470	5%	1/10W
R126	1-216-041-00	METAL GLAZE	470	5%	1/10W
R127	1-216-041-00	METAL GLAZE	470	5%	1/10W
R129	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R130	1-216-029-00	METAL GLAZE	150	5%	1/10W
R131	1-216-037-00	METAL GLAZE	330	5%	1/10W
R132	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R134	1-216-295-91	CONDUCTOR, CHIP			
R140	1-216-009-00	METAL GLAZE	22	5%	1/10W
R141	1-216-009-00	METAL GLAZE	22	5%	1/10W
R150	1-216-009-00	METAL GLAZE	22	5%	1/10W
R161	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R162	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R163	1-216-009-00	METAL GLAZE	22	5%	1/10W
R171	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R172	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R180	1-216-041-00	METAL GLAZE	470	5%	1/10W
R201	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R202	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R203	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R204	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R206	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R207	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R208	1-247-735-11	SOLID	47	20%	1/2W
R209	1-216-039-00	METAL GLAZE	390	5%	1/10W
R211	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R212	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R213	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R214	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R215	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R216	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R217	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R220	1-216-017-91	METAL GLAZE	47	5%	1/10W
R221	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R222	1-216-037-00	METAL GLAZE	330	5%	1/10W
R223	1-216-017-91	METAL GLAZE	47	5%	1/10W
R224	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R230	1-216-029-00	METAL GLAZE	150	5%	1/10W
R231	1-216-037-00	METAL GLAZE	330	5%	1/10W
R232	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R240	1-216-009-00	METAL GLAZE	22	5%	1/10W
R241	1-216-009-00	METAL GLAZE	22	5%	1/10W
R250	1-216-009-00	METAL GLAZE	22	5%	1/10W
R261	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R262	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R263	1-216-009-00	METAL GLAZE	22	5%	1/10W
R271	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R272	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R280	1-216-041-00	METAL GLAZE	470	5%	1/10W
R301	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R302	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R303	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R304	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R306	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R307	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R308	1-247-735-11	SOLID	47	20%	1/2W
R309	1-216-039-00	METAL GLAZE	390	5%	1/10W
R311	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R312	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R313	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R314	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R315	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R316	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R317	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R318	1-216-039-00	METAL GLAZE	390	5%	1/10W
R319	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R320	1-216-017-91	METAL GLAZE	47	5%	1/10W
R321	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R322	1-216-037-00	METAL GLAZE	330	5%	1/10W
R323	1-216-017-91	METAL GLAZE	47	5%	1/10W
R324	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R330	1-216-029-00	METAL GLAZE	150	5%	1/10W
R331	1-216-037-00	METAL GLAZE	330	5%	1/10W
R332	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R334	1-216-295-91	CONDUCTOR, CHIP			
R340	1-216-009-00	METAL GLAZE	22	5%	1/10W
R341	1-216-009-00	METAL GLAZE	22	5%	1/10W
R350	1-216-009-00	METAL GLAZE	22	5%	1/10W
R361	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R362	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R363	1-216-009-00	METAL GLAZE	22	5%	1/10W
R371	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R372	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R380	1-216-041-00	METAL GLAZE	470	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION			REMARK
		<VARIABLE RESISTOR>			
RV101	1-223-410-11	RES, ADJ, METAL FILM	110M		(H.STAT)
		<SPARK GAP>			
SG001	1-519-422-11	GAP, SPARK			
SG002	1-519-422-11	GAP, SPARK			
SG101	1-517-499-21	GAP, SPARK			
SG201	1-517-499-21	GAP, SPARK			
SG301	1-517-499-21	GAP, SPARK			
		**********			
	*8-933-166-00	D BOARD, COMPLETE			
		**********			
	2-371-561-00	BUSHING (P), INSULATING (IC402, IC504)			
	3-710-578-01	COVER, VOLUME, 6 MOLD			(RV401, RV601)
	4-034-094-01	SHEET, INSULATOR (Q420, Q600)			
	*4-043-154-01	HOLDER, IC (Q407)			
	*4-043-990-01	HEAT SINK (D600)			
	4-051-602-11	SHEET, RADIATION (IC504, IC402)			
	4-051-627-01	SHEET, INSULATING (Q420)			
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC402, IC504, IC608, IC702, Q408, Q417, Q420, Q600, Q645, Q647, D410, D600, D601, D651)			
	4-812-134-00	RIVET (DIA. 3.5), NYLON			
		<CAPACITOR>			
C400	1-137-368-11	FILM	0.0047MF	5%	50V
C401	1-137-372-11	FILM	0.022MF	5%	50V
C402	1-136-173-00	FILM	0.47MF	5%	50V
C403	1-128-528-11	ELECT	470MF	20%	25V
C404	1-136-169-00	FILM	0.22MF	5%	50V
C405	1-137-368-11	FILM	0.0047MF	5%	50V
C406	1-102-244-00	CERAMIC	220pF	10%	500V
C407	1-106-375-12	MYLAR	0.022MF		200V
C408	1-106-375-12	MYLAR	0.022MF		200V
C409	1-104-664-11	ELECT	47MF	20%	25V
C411	1-107-433-11	FILM	0.006MF	3%	2KV
C412	1-129-898-00	FILM	0.0022MF	10%	630V
C413	1-162-558-11	CERAMIC	100pF	10%	2KV
C414	1-107-648-91	ELECT	100MF	20%	200V
C415	1-162-558-11	CERAMIC	100pF	10%	2KV
C416	1-162-114-00	CERAMIC	0.0047MF		2KV
C417	1-102-106-00	CERAMIC	100pF	10%	50V
C418	1-104-664-11	ELECT	47MF	20%	25V
C419	1-137-370-11	FILM	0.01MF	5%	50V
C420	1-126-967-11	ELECT	47MF	20%	50V
C421	1-137-368-11	FILM	0.0047MF	5%	50V
C422	1-126-964-11	ELECT	10MF	20%	50V
C423	1-137-399-11	FILM	0.1MF	5%	50V
C424	1-137-371-11	FILM	0.015MF	5%	50V
C425	1-104-664-11	ELECT	47MF	20%	25V
C426	1-137-364-11	FILM	0.001MF	5%	50V
C428	1-106-359-00	MYLAR	0.0047MF	10%	200V
C429	1-137-364-11	FILM	0.001MF	5%	50V
C430	1-107-648-91	ELECT	100MF	20%	200V
C431	1-136-105-00	FILM	0.33MF	5%	200V
C432	1-113-714-11	FILM	2000pF	3%	2KV
C433	1-137-368-11	FILM	0.0047MF	5%	50V
C435	1-137-399-11	FILM	0.1MF	5%	50V
C436	1-137-399-11	FILM	0.1MF	5%	50V
C437	1-126-963-11	ELECT	4.7MF	20%	50V
C438	1-102-106-00	CERAMIC	100pF	10%	50V
C440	1-136-173-00	FILM	0.47MF	5%	50V
C441	1-137-364-11	FILM	0.001MF	5%	50V
C442	1-137-372-11	FILM	0.022MF	5%	50V
C443	1-126-964-11	ELECT	10MF	20%	50V
C445	1-102-114-00	CERAMIC	470pF	10%	50V
C446	1-137-364-11	FILM	0.001MF	5%	50V
C447	1-137-399-11	FILM	0.1MF	5%	50V
C448	1-137-399-11	FILM	0.1MF	5%	50V
C449	1-164-645-11	CERAMIC	1000pF	10%	500V
C450	1-136-169-00	FILM	0.22MF	5%	50V
C451	1-126-963-11	ELECT	4.7MF	20%	50V
C453	1-104-666-11	ELECT	220MF	20%	25V
C454	1-137-368-11	FILM	0.0047MF	5%	50V
C455	1-124-903-11	ELECT	1MF	20%	50V
C456	1-104-664-11	ELECT	47MF	20%	25V
C458	1-137-374-11	FILM	0.047MF	5%	50V
C459	1-137-399-11	FILM	0.1MF	5%	50V
C460	1-137-366-11	FILM	0.0022MF	5%	50V
C461	1-162-114-00	CERAMIC	0.0047MF		2KV
C462	1-137-399-11	FILM	0.1MF	5%	50V
C463	1-102-973-00	CERAMIC	100pF	5%	50V
C464	1-124-903-11	ELECT	1MF	20%	50V
C466	1-104-574-11	CERAMIC	0.0047MF	10%	1KV
C467	1-126-934-11	ELECT	220MF	20%	16V
C470	1-104-652-11	ELECT	470MF	20%	10V
C471	1-126-925-11	ELECT	470MF	20%	10V
C472	1-136-169-00	FILM	0.22MF	5%	50V
C473	1-102-114-00	CERAMIC	470pF	10%	50V
C501	1-106-228-00	MYLAR	0.22MF	10%	100V
C502	1-137-399-11	FILM	0.1MF	5%	50V
C503	1-107-894-11	ELECT	220MF	20%	35V
C505	1-102-112-00	CERAMIC	330pF	10%	50V
C506	1-137-399-11	FILM	0.1MF	5%	50V
C507	1-215-493-00	METAL	1M	1%	1/4W
C519	1-101-006-00	CERAMIC	0.047MF		50V
C520	1-128-528-11	ELECT	470MF	20%	25V
C521	1-128-528-11	ELECT	470MF	20%	25V
C522	1-101-006-00	CERAMIC	0.047MF		50V
C600	1-113-707-11	ELECT	220MF	20%	450V
C601	1-137-479-11	FILM	1MF	10%	400V
C602	1-137-399-11	FILM	0.1MF	5%	50V
C603	1-107-902-11	ELECT	1MF	20%	50V
C604	1-137-368-11	FILM	0.0047MF	5%	50V
C605	1-136-169-00	FILM	0.22MF	5%	50V
C606	1-102-125-00	CERAMIC	0.0047MF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C607	1-126-965-11	ELECT	22MF	20%	50V
C608	1-126-967-11	ELECT	47MF	20%	50V
C609	1-136-169-00	FILM	0.22MF	5%	50V
C610	1-128-339-11	ELECT	2200MF	20%	16V
C611	1-128-339-11	ELECT	2200MF	20%	16V
C612	1-137-399-11	FILM	0.1MF	5%	50V
C613	1-102-114-00	CERAMIC	470pF	10%	50V
C614	1-137-399-11	FILM	0.1MF	5%	50V
C615	1-164-646-11	CERAMIC	2200pF	10%	500V
C616 ⚠	1-113-926-91	CERAMIC	0.0047MF		250V
C617 ⚠	1-113-926-91	CERAMIC	0.0047MF		250V
C618	1-104-664-11	ELECT	47MF	20%	25V
C619	1-126-933-11	ELECT	100MF	20%	10V
C620	1-104-664-11	ELECT	47MF	20%	25V
C621	1-104-664-11	ELECT	47MF	20%	25V
C622	1-104-664-11	ELECT	47MF	20%	25V
C623	1-104-664-11	ELECT	47MF	20%	25V
C624	1-104-664-11	ELECT	47MF	20%	25V
C625	1-104-664-11	ELECT	47MF	20%	25V
C628	1-104-332-11	CERAMIC	470pF	10%	2KV
C630	1-124-925-11	ELECT	2.2MF	20%	50V
C631	1-102-129-00	CERAMIC	0.01MF	10%	50V
C633	1-104-664-11	ELECT	47MF	20%	25V
C634	1-165-136-11	CERAMIC	3300pF	10%	500V
C635	1-136-169-00	FILM	0.22MF	5%	50V
C636	1-164-644-11	CERAMIC	330pF	10%	500V
C637	1-107-955-11	ELECT	100MF	20%	200V
C638	1-107-952-11	ELECT	22MF	20%	200V
C639	1-137-399-11	FILM	0.1MF	5%	50V
C640	1-129-719-00	FILM	0.027MF	5%	630V
C642	1-104-800-11	ELECT	100MF	20%	100V
C643	1-107-928-11	ELECT	4.7MF	20%	100V
C644	1-164-644-11	CERAMIC	330pF	10%	500V
C645	1-126-963-11	ELECT	4.7MF	20%	50V
C646	1-136-169-00	FILM	0.22MF	5%	50V
C647	1-164-644-11	CERAMIC	330pF	10%	500V
C648	1-137-399-11	FILM	0.1MF	5%	50V
C649	1-107-890-11	ELECT	2200MF	20%	25V
C650	1-104-664-11	ELECT	47MF	20%	25V
C651	1-107-890-11	ELECT	2200MF	20%	25V
C652	1-104-664-11	ELECT	47MF	20%	25V
C653	1-137-399-11	FILM	0.1MF	5%	50V
C654	1-102-989-00	CERAMIC	68pF	5%	500V
C670	1-102-989-00	CERAMIC	68pF	5%	500V
C671	1-111-057-11	ELECT	120MF	20%	25V
C672	1-137-399-11	FILM	0.1MF	5%	50V
C673	1-130-489-00	FILM	0.033MF	5%	50V
C674	1-126-925-11	ELECT	470MF	20%	10V
C676	1-137-399-11	FILM	0.1MF	5%	50V
C677	1-104-665-11	ELECT	100MF	20%	25V
C678	1-128-526-11	ELECT	100MF	20%	25V
C679	1-130-489-00	FILM	0.033MF	5%	50V
C680	1-136-538-11	FILM	0.001MF	3%	2KV
C681	1-136-171-00	FILM	0.33MF	5%	50V
C682	1-137-372-11	FILM	0.022MF	5%	50V
C683	1-126-105-11	ELECT	1000MF	20%	25V
C684	1-137-399-11	FILM	0.1MF	5%	50V
C685 ⚠	1-113-513-11	FILM	1MF	20%	275V
C687 ⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C688 ⚠	1-113-900-51	CERAMIC	470pF	10%	250V
C689	1-137-399-11	FILM	0.1MF	5%	50V
C690 ⚠	1-113-513-11	FILM	1MF	20%	275V
C691	1-107-797-11	CERAMIC	150pF	5%	1KV
C692	1-107-797-11	CERAMIC	150pF	5%	1KV
C693	1-107-929-11	ELECT	10MF	20%	50V
C702	1-102-112-00	CERAMIC	330pF	10%	50V
C703	1-137-372-11	FILM	0.022MF	5%	50V
C704	1-126-964-11	ELECT	10MF	20%	50V
C705	1-137-399-11	FILM	0.1MF	5%	50V
C706	1-126-964-11	ELECT	10MF	20%	50V
C707	1-137-370-11	FILM	0.01MF	5%	50V
C708	1-137-370-11	FILM	0.01MF	5%	50V
C709	1-137-370-11	FILM	0.01MF	5%	50V
C710	1-136-193-11	FILM	0.47MF	10%	250V
C711	1-107-510-11	FILM	0.07MF	5%	400V
C712	1-115-514-11	FILM	0.22MF	5%	250V
C713	1-137-370-11	FILM	0.01MF	5%	50V
C714	1-107-847-11	FILM	0.36MF	5%	400V
C715	1-110-969-11	FILM	0.89MF	5%	400V
C716	1-113-595-11	FILM	1.5MF	5%	400V
C721	1-136-122-00	FILM	0.47MF	5%	400V
C723	1-136-203-11	FILM	0.01MF	5%	630V
C724	1-137-370-11	FILM	0.01MF	5%	50V
C725	1-113-481-11	FILM	0.001MF	5%	630V
C726	1-107-652-11	ELECT	10MF	20%	200V
C727	1-124-903-11	ELECT	1MF	20%	50V
C728	1-137-368-11	FILM	0.0047MF	5%	50V
C729	1-136-169-00	FILM	0.22MF	5%	50V
C802	1-102-112-00	CERAMIC	330pF	10%	50V
C1401	1-107-909-11	ELECT	47MF	20%	50V
C1402	1-104-718-91	CERAMIC	33pF	5%	2KV
C1403	1-101-804-00	CERAMIC	10pF	5%	500V
C1404	1-101-804-00	CERAMIC	10pF	5%	500V
C1405	1-126-964-11	ELECT	10MF	20%	50V
C1406	1-162-318-11	CERAMIC	0.001MF	10%	500V
C1407	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1408	1-137-399-11	FILM	0.1MF	5%	50V
C1409	1-102-106-00	CERAMIC	100pF	10%	50V
C1410	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1411	1-104-664-11	ELECT	47MF	20%	25V
C1412	1-126-964-11	ELECT	10MF	20%	50V
C1413	1-136-169-00	FILM	0.22MF	5%	50V
C1501	1-137-375-11	FILM	0.068MF	5%	50V

<CONNECTOR>

CN401*	1-774-513-11	PIN, CONNECTOR (PC BOARD)	9P
CN402	1-764-101-11	PIN, CONNECTOR (PC BOARD)	2P
CN600 ⚠	1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P
CN601	1-695-915-11	TAB (CONTACT)	
CN602	1-695-915-11	TAB (CONTACT)	
CN606*	1-564-510-11	PLUG, CONNECTOR	7P

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REF.NO.	PART NO.	DESCRIPTION	REMARK
CN607	1-564-511-11	PLUG, CONNECTOR 8P	
CN608*	1-564-508-11	PLUG, CONNECTOR 5P	
CN685*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN701*	1-564-512-11	PLUG, CONNECTOR 9P	
CN803*	1-508-879-11	BASE POST	
CN804*	1-564-509-11	PLUG, CONNECTOR 6P	
CN805*	1-564-513-11	PLUG, CONNECTOR 10P	
CN810*	1-774-591-11	CONNECTOR, BOARD TO BOARD 20P	
CN811*	1-774-591-11	CONNECTOR, BOARD TO BOARD 20P	
CN812*	1-774-591-11	CONNECTOR, BOARD TO BOARD 20P	
		<DIODE>	
D401	8-719-109-89	ZENER DIODE RD5.6ESB2	
D402	8-719-911-19	DIODE 1SS119-25	
D403	8-719-911-19	DIODE 1SS119-25	
D404	8-719-911-19	DIODE 1SS119-25	
D405	8-719-911-19	DIODE 1SS119-25	
D406	8-719-984-73	DIODE SB560	
D407	8-719-110-46	ZENER DIODE RD16ESB3	
D408	8-719-110-31	ZENER DIODE RD12ESB2	
D410	8-719-049-12	DIODE 5TUZ52	
D411	8-719-048-73	DIODE ERC90M-03	
D412	8-719-110-17	ZENER DIODE RD10ESB2	
D413	8-719-911-19	DIODE 1SS119-25	
D414	8-719-018-82	DIODE RGP02-20EL-6394	
D415	8-719-911-19	DIODE 1SS119-25	
D416	8-719-110-17	ZENER DIODE RD10ESB2	
D417	8-719-110-13	ZENER DIODE RD9.1ESB2	
D418	8-719-109-85	ZENER DIODE RD5.1ESB2	
D419	8-719-911-19	DIODE 1SS119-25	
D420	8-719-911-19	DIODE 1SS119-25	
D421	8-719-911-19	DIODE 1SS119-25	
D422	8-719-941-74	DIODE ERB91-02	
D423	8-719-911-19	DIODE 1SS119-25	
D424	8-719-911-19	DIODE 1SS119-25	
D425	8-719-921-40	ZENER DIODE MTZJ-4.7C	
D426	8-719-911-19	DIODE 1SS119-25	
D427	8-719-911-19	DIODE 1SS119-25	
D428	8-719-110-46	ZENER DIODE RD16ESB3	
D429	8-719-911-19	DIODE 1SS119-25	
D430	8-719-941-74	DIODE ERB91-02	
D431	8-719-048-73	DIODE ERC90M-03	
D432	8-719-110-46	ZENER DIODE RD16ESB3	
D433	8-719-911-19	DIODE 1SS119-25	
D434	8-719-911-19	DIODE 1SS119-25	
D438	8-719-911-19	DIODE 1SS119-25	
D439	8-719-979-58	DIODE EGP10D	
D440	8-719-200-02	DIODE 10E-2	
D441	8-719-911-19	DIODE 1SS119-25	
D442	8-719-109-85	ZENER DIODE RD5.1ESB2	
D443	8-719-109-85	ZENER DIODE RD5.1ESB2	
D444	8-719-109-81	ZENER DIODE RD4.7ESB2	
D445	8-759-157-40	IC UPC574J	
D446	8-719-109-81	ZENER DIODE RD4.7ESB2	
D448	8-719-911-19	DIODE 1SS119-25	
D451	8-719-911-19	DIODE 1SS119-25	
D454	8-719-110-17	ZENER DIODE RD10ESB2	
D455	8-719-911-19	DIODE 1SS119-25	
D456	8-719-911-19	DIODE 1SS119-25	
D457	8-719-911-19	DIODE 1SS119-25	
D501	8-719-908-03	DIODE GP08D	
D502	8-719-911-19	DIODE 1SS119-25	
D503	8-719-110-17	ZENER DIODE RD10ESB2	
D504	8-719-908-03	DIODE GP08D	
D505	8-719-979-85	DIODE EGP20G	
D600 ⚠	8-719-510-63	DIODE D4SB60L-F	
D601	8-719-029-04	DIODE D5L60	
D602	8-719-911-19	DIODE 1SS119-25	
D603	8-719-022-97	DIODE D2S4MF	
D604	8-719-022-97	DIODE D2S4MF	
D605	8-719-109-93	ZENER DIODE RD6.2ESB2	
D606	8-719-110-49	ZENER DIODE RD18ESB2	
D631	8-719-110-49	ZENER DIODE RD18ESB2	
D632	8-719-911-19	DIODE 1SS119-25	
D634	8-719-052-86	DIODE D2L40-TA	
D635	8-719-911-19	DIODE 1SS119-25	
D636	8-719-052-86	DIODE D2L40-TA	
D637	8-719-911-19	DIODE 1SS119-25	
D638	8-719-110-63	ZENER DIODE RD24ESB3	
D639	8-719-052-86	DIODE D2L40-TA	
D640	8-719-052-86	DIODE D2L40-TA	
D642	8-719-510-64	DIODE S2LA20F	
D648	8-719-911-19	DIODE 1SS119-25	
D650	8-719-911-19	DIODE 1SS119-25	
D651	8-719-052-91	DIODE D4SBS4-F	
D653	8-719-911-19	DIODE 1SS119-25	
D654	8-719-911-19	DIODE 1SS119-25	
D655	8-719-911-19	DIODE 1SS119-25	
D670	8-719-110-49	ZENER DIODE RD18ESB2	
D671	8-719-510-64	DIODE S2LA20F	
D672	8-719-110-49	ZENER DIODE RD18ESB2	
D673	8-719-510-02	DIODE D1NS4	
D674	8-719-510-64	DIODE S2LA20F	
D675	8-719-022-97	DIODE D2S4MF	
D679	8-719-911-19	DIODE 1SS119-25	
D680	8-719-109-66	ZENER DIODE RD3.3ESB2	
D681	8-719-911-19	DIODE 1SS119-25	
D682	8-719-109-66	ZENER DIODE RD3.3ESB2	
D683	8-719-911-19	DIODE 1SS119-25	
D684	8-719-911-19	DIODE 1SS119-25	
D685	8-719-911-19	DIODE 1SS119-25	
D686	8-719-911-19	DIODE 1SS119-25	
D689	8-719-911-19	DIODE 1SS119-25	
D690	8-719-109-81	ZENER DIODE RD4.7ESB2	
D691	8-719-109-89	ZENER DIODE RD5.6ESB2	
D701	8-719-109-81	ZENER DIODE RD4.7ESB2	
D702	8-719-109-81	ZENER DIODE RD4.7ESB2	
D703	8-719-109-81	ZENER DIODE RD4.7ESB2	
D704	8-719-109-81	ZENER DIODE RD4.7ESB2	
D706	8-719-948-45	DIODE ERA22-08	
D707	8-719-948-45	DIODE ERA22-08	

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Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D708	8-719-110-31	ZENER DIODE RD12ESB2	
D709	8-719-110-31	ZENER DIODE RD12ESB2	
D1402	8-719-911-19	DIODE 1SS119-25	
D1403	8-719-109-89	ZENER DIODE RD5.6ESB2	
D1404	8-719-911-19	DIODE 1SS119-25	
D1405	8-719-911-19	DIODE 1SS119-25	
D1406	8-719-911-19	DIODE 1SS119-25	
D1407	8-719-109-89	ZENER DIODE RD5.6ESB2	
		<DISCHARGE GAP>	
DS401	1-519-421-11	GAP, DISCHARGE	
		<FUSE>	
F685 ⚠	1-576-233-11	FUSE (H.B.C.) 6.3A/250V	
	1-533-223-11	HOLDER, FUSE ; F685	
		<FERRITE BEAD>	
FB401	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB403	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB405	1-410-397-21	FERRITE BEAD INDUCTOR	1.1UH
FB601	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB602	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB603	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB631	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB632	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
FB633	1-410-396-41	FERRITE BEAD INDUCTOR	0.45UH
		<IC>	
IC401	8-759-982-76	IC BA10339	
IC402	8-759-803-42	IC LA6500-FA	
IC403	8-759-938-12	IC BA10324	
IC504	8-759-980-58	IC TDA8172	
IC601	8-759-904-94	IC TL494CN	
IC602	8-759-140-85	IC UPC1093J	
IC603	8-749-011-42	IC SI-3050F	
IC606	8-759-231-53	IC TA7805S	
IC607	8-759-701-84	IC NJM7905FA	
IC608	8-759-390-38	IC UPC24M12AHF	
IC609	8-759-231-53	IC TA7805S	
IC630	8-749-012-05	IC DM-57	
IC701	8-759-822-38	IC LA6510	
IC702	8-749-011-63	IC IRSY5305	
IC1401	8-759-634-51	IC M5218AP	
		<COIL>	
L401	1-412-529-11	INDUCTOR 22UH	
L402	1-411-592-21	COIL, CHOKE 500UH	
L403	1-406-675-11	COIL, CHOKE 4.7mH	
L405	1-411-666-11	COIL, HORIZONTAL LINEARITY	
L406	1-411-709-11	COIL, HORIZONTAL LINEARITY	
L407	1-412-545-11	INDUCTOR 470UH	
L408	1-412-545-11	INDUCTOR 470UH	
L409	1-411-594-11	COIL, CHOKE 5mH	
L410	1-408-409-00	INDUCTOR 10UH	
L630	1-403-588-11	CIL, CHOKE 22UH	
L631	1-408-409-00	INDUCTOR 10UH	
L632	1-403-588-11	CIL, CHOKE 22UH	
L633	1-403-588-11	CIL, CHOKE 22UH	
L701	1-412-521-21	INDUCTOR 4.7UH	
L702	1-414-493-41	INDUCTOR 4.7mH	
L703	1-414-493-41	INDUCTOR 4.7mH	
		<PHOTO COUPLER>	
PH670	8-749-010-64	PHOTO COUPLER PC123F2	
PH675	8-719-156-73	PHOTO COUPLER PS2501-1-L	
		<IC LINK>	
PS401 ⚠	1-533-592-31	LINK, IC	1.6A/90V
PS402 ⚠	1-533-590-31	LINK, IC	1A/90V
PS670 ⚠	1-532-605-91	LINK, IC	0.4A/50V
PS671 ⚠	1-532-984-91	LINK, IC	2A/90V
PS672 ⚠	1-532-984-91	LINK, IC	2A/90V
PS673 ⚠	1-532-984-91	LINK, IC	2A/90V
		<TRANSISTOR>	
Q401	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q403	8-729-820-73	TRANSISTOR 2SC3746	
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q405	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q407	8-729-033-99	TRANSISTOR 2SC5301-CC	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3 ; Q407	
Q408	8-729-015-28	TRANSISTOR IRFI9630GS	
Q409	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q410	8-729-029-86	TRANSISTOR DTC124ESA	
Q411	8-729-140-50	TRANSISTOR 2SC3209LK	
Q413	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q414	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q415	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q416	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q417	8-729-015-28	TRANSISTOR IRFI9630GS	
Q418	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q419	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q420	8-729-032-88	TRANSISTOR IRFPG50LF21	
Q423	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q424	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q425	8-729-029-86	TRANSISTOR DTC124ESA	
Q426	8-729-029-40	TRANSISTOR DTA124ESA	
Q600	8-729-034-74	TRANSISTOR FS16SM-10-A8	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q602	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q605	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q606	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q608	8-729-036-01	TRANSISTOR 2SA1371DE-AE	
Q609	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q610	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q640	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q641	8-729-230-45	TRANSISTOR 2SC2458-YGR	
Q642	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q643	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q644	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q645	8-729-016-15	TRANSISTOR 2SC4833MNP	
Q647	8-729-016-15	TRANSISTOR 2SC4833MNP	
Q648	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q649	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q671	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q672	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q674	8-729-032-36	TRANSISTOR 2SC4052MNPR	
Q675	8-729-032-36	TRANSISTOR 2SC4052MNPR	
Q686	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q690	8-729-029-86	TRANSISTOR DTC124ESA	
Q702	8-729-032-61	TRANSISTOR 2SC5022-02	
Q703	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q704	8-729-808-36	TRANSISTOR 2SK669	
Q1401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1402	8-729-032-61	TRANSISTOR 2SC5022-02	
Q1403	8-729-140-96	TRANSISTOR 2SD774-34	
Q1404	8-729-029-40	TRANSISTOR DTA124ESA	

<RESISTOR>

R401	1-247-807-31	CARBON	100	5% 1/4W	
R402	1-249-393-11	CARBON	10	5% 1/4W	F
R403	1-249-421-11	CARBON	2.2K	5% 1/4W	
R404	1-249-417-11	CARBON	1K	5% 1/4W	
R405	1-249-417-11	CARBON	1K	5% 1/4W	
R406	1-249-413-11	CARBON	470	5% 1/4W	
R407	1-249-421-11	CARBON	2.2K	5% 1/4W	
R408	1-249-393-11	CARBON	10	5% 1/4W	F
R409	1-249-397-11	CARBON	22	5% 1/4W	F
R410	1-260-296-11	CARBON	2.2	5% 1/2W	
R411	1-215-861-00	METAL OXIDE	47	5% 1W	F
R412	1-249-421-11	CARBON	2.2K	5% 1/4W	
R413	1-216-396-11	METAL OXIDE	3.9	5% 3W	F
R414	1-215-437-00	METAL	4.7K	1% 1/4W	
R415	1-216-447-00	METAL OXIDE	27	5% 2W	F
R416	1-247-863-91	CARBON	22K	5% 1/4W	
R417	1-215-437-00	METAL	4.7K	1% 1/4W	
R418	1-249-429-11	CARBON	10K	5% 1/4W	
R419	1-249-421-11	CARBON	2.2K	5% 1/4W	
R420	1-247-807-31	CARBON	100	5% 1/4W	
R421	1-216-396-11	METAL OXIDE	3.9	5% 3W	F
R422	1-215-425-00	METAL	1.5K	1% 1/4W	
R423	1-215-469-00	METAL	100K	1% 1/4W	
R424	1-249-425-11	CARBON	4.7K	5% 1/4W	
R425	1-202-719-00	SOLID	1M	20% 1/2W	
R426	1-202-826-00	SOLID	4.7K	20% 1/2W	
R427	1-215-455-00	METAL	27K	1% 1/4W	
R428	1-247-887-00	CARBON	220K	5% 1/4W	
R429	1-215-861-00	METAL OXIDE	47	5% 1W	F
R430	1-215-425-00	METAL	1.5K	1% 1/4W	
R431	1-249-417-11	CARBON	1K	5% 1/4W	F
R432	1-215-891-11	METAL OXIDE	680	5% 2W	F
R433	1-216-396-11	METAL OXIDE	3.9	5% 3W	F
R434	1-249-417-11	CARBON	1K	5% 1/4W	
R435	1-249-437-11	CARBON	47K	5% 1/4W	
R436	1-215-445-00	METAL	10K	1% 1/4W	
R437	1-249-413-11	CARBON	470	5% 1/4W	
R438	1-214-840-00	METAL	100	1% 1/2W	
R439	1-249-437-11	CARBON	47K	5% 1/4W	
R440	1-249-417-11	CARBON	1K	5% 1/4W	
R441	1-214-840-00	METAL	100	1% 1/2W	
R442	1-249-437-11	CARBON	47K	5% 1/4W	
R443	1-249-421-11	CARBON	2.2K	5% 1/4W	
R444	1-249-429-11	CARBON	10K	5% 1/4W	
R445	1-214-840-00	METAL	100	1% 1/2W	
R446	1-215-449-00	METAL	15K	1% 1/4W	
R447	1-215-459-00	METAL	39K	1% 1/4W	
R448	1-215-421-00	METAL	1K	1% 1/4W	
R449	1-249-425-11	CARBON	4.7K	5% 1/4W	
R450	1-216-393-00	METAL OXIDE	2.2	5% 3W	F
R451	1-249-421-11	CARBON	2.2K	5% 1/4W	
R452	1-216-393-00	METAL OXIDE	2.2	5% 3W	F
R453	1-260-085-11	CARBON	68	5% 1/2W	
R454	1-215-451-00	METAL	18K	1% 1/4W	
R455	1-247-887-00	CARBON	220K	5% 1/4W	
R456	1-249-421-11	CARBON	2.2K	5% 1/4W	
R457	1-249-429-11	CARBON	10K	5% 1/4W	
R458	1-215-863-11	METAL OXIDE	100	5% 1W	F
R460	1-249-426-11	CARBON	5.6K	5% 1/4W	
R461	1-249-426-11	CARBON	5.6K	5% 1/4W	
R462	1-215-425-00	METAL	1.5K	1% 1/4W	
R463	1-249-401-11	CARBON	47	5% 1/4W	F
R464	1-249-393-11	CARBON	10	5% 1/4W	F
R465	1-216-385-11	METAL OXIDE	0.47	5% 3W	F
R466	1-249-417-11	CARBON	1K	5% 1/4W	
R467	1-249-417-11	CARBON	1K	5% 1/4W	
R468	1-247-863-91	CARBON	22K	5% 1/4W	
R469	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R470	1-215-453-00	METAL	22K	1% 1/4W	
R471	1-249-393-11	CARBON	10	5% 1/4W	F
R472	1-215-455-00	METAL	27K	1% 1/4W	
R473	1-249-397-11	CARBON	22	5% 1/4W	F
R476	1-249-441-11	CARBON	100K	5% 1/4W	
R477	1-215-913-11	METAL OXIDE	220	5% 3W	F
R478	1-215-913-11	METAL OXIDE	220	5% 3W	F
R479	1-215-913-11	METAL OXIDE	220	5% 3W	F
R480	1-249-429-11	CARBON	10K	5% 1/4W	
R481	1-247-807-31	CARBON	100	5% 1/4W	
R482	1-249-417-11	CARBON	1K	5% 1/4W	F
R483	1-249-429-11	CARBON	10K	5% 1/4W	
R484	1-215-421-00	METAL	1K	1% 1/4W	
R485	1-247-891-00	CARBON	330K	5% 1/4W	

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R486	1-247-895-91	CARBON	470K	5%	1/4W	
R487	1-215-455-00	METAL	27K	1%	1/4W	
R488	1-215-437-00	METAL	4.7K	1%	1/4W	
R489	1-215-457-00	METAL	33K	1%	1/4W	
R490	1-249-389-11	CARBON	4.7	5%	1/4W	F
R492	1-215-461-00	METAL	47K	1%	1/4W	
R493 ⚠	1-215-474-91	METAL	160K	1%	1/4W	
R494	1-215-459-00	METAL	39K	1%	1/4W	
R495	1-215-445-00	METAL	10K	1%	1/4W	
R496	1-202-826-00	SOLID	4.7K	20%	1/2W	
R497	1-215-459-00	METAL	39K	1%	1/4W	
R498	1-202-826-00	SOLID	4.7K	20%	1/2W	
R499	1-249-435-11	CARBON	33K	5%	1/4W	
R501	1-215-443-00	METAL	8.2K	1%	1/4W	
R502	1-249-421-11	CARBON	2.2K	5%	1/4W	
R503	1-215-441-00	METAL	6.8K	1%	1/4W	
R504	1-215-439-00	METAL	5.6K	1%	1/4W	
R505	1-249-421-11	CARBON	2.2K	5%	1/4W	
R506	1-215-453-00	METAL	22K	1%	1/4W	
R508	1-215-875-11	METAL OXIDE	10K	5%	1W	F
R509	1-215-475-00	METAL	180K	1%	1/4W	
R510	1-215-467-00	METAL	82K	1%	1/4W	
R511	1-214-798-21	METAL	1.8	1%	1/2W	
R512	1-215-866-11	METAL OXIDE	330	5%	1W	F
R513	1-249-383-11	CARBON	1.5	5%	1/4W	F
R514	1-215-409-00	METAL	330	1%	1/4W	
R515	1-215-423-00	METAL	1.2K	1%	1/4W	
R516	1-249-413-11	CARBON	470	5%	1/4W	F
R517	1-249-421-11	CARBON	2.2K	5%	1/4W	
R518	1-249-421-11	CARBON	2.2K	5%	1/4W	
R521	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R522	1-216-393-00	METAL OXIDE	2.2	5%	3W	F
R524	1-215-433-00	METAL	3.3K	1%	1/4W	
R525	1-215-459-00	METAL	39K	1%	1/4W	
R526	1-214-798-21	METAL	1.8	1%	1/2W	
R530	1-249-421-11	CARBON	2.2K	5%	1/4W	
R531	1-249-421-11	CARBON	2.2K	5%	1/4W	
R532	1-215-443-00	METAL	8.2K	1%	1/4W	
R533	1-215-453-00	METAL	22K	1%	1/4W	
R534	1-215-421-00	METAL	1K	1%	1/4W	
R535	1-215-429-00	METAL	2.2K	1%	1/4W	
R536	1-215-453-00	METAL	22K	1%	1/4W	
R537	1-215-421-00	METAL	1K	1%	1/4W	
R600	1-249-393-11	CARBON	10	5%	1/4W	
R601	1-249-425-11	CARBON	4.7K	5%	1/4W	
R602	1-249-417-11	CARBON	1K	5%	1/4W	
R603	1-215-428-00	METAL	2K	1%	1/4W	
R604	1-247-887-00	CARBON	220K	5%	1/4W	
R605	1-247-807-31	CARBON	100	5%	1/4W	
R606	1-215-445-00	METAL	10K	1%	1/4W	
R607	1-247-887-00	CARBON	220K	5%	1/4W	
R608	1-247-883-00	CARBON	150K	5%	1/4W	
R609	1-215-485-00	METAL	470K	1%	1/4W	
R610	1-215-483-00	METAL	390K	1%	1/4W	
R611	1-215-457-00	METAL	33K	1%	1/4W	
R612	1-215-483-00	METAL	390K	1%	1/4W	
R613	1-215-483-00	METAL	390K	1%	1/4W	
R614	1-215-445-00	METAL	10K	1%	1/4W	
R615	1-215-437-00	METAL	4.7K	1%	1/4W	
R617	1-260-288-11	CARBON	0.47	5%	1/2W	
R619	1-212-942-00	FUSIBLE	2.2	5%	1/2W	F
R620	1-249-425-11	CARBON	4.7K	5%	1/4W	
R621	1-249-437-11	CARBON	47K	5%	1/4W	
R622	1-247-863-91	CARBON	22K	5%	1/4W	
R623	1-249-413-11	CARBON	470	5%	1/4W	
R624	1-249-429-11	CARBON	10K	5%	1/4W	
R625	1-249-425-11	CARBON	4.7K	5%	1/4W	
R626	1-247-863-91	CARBON	22K	5%	1/4W	
R627	1-247-895-91	CARBON	470K	5%	1/4W	
R628	1-216-397-11	METAL OXIDE	4.7	5%	3W	F
R629	1-249-421-11	CARBON	2.2K	5%	1/4W	
R630	1-215-485-00	METAL	470K	1%	1/4W	
R631	1-215-485-00	METAL	470K	1%	1/4W	
R632	1-249-429-11	CARBON	10K	5%	1/4W	
R633	1-247-807-31	CARBON	100	5%	1/4W	
R634	1-249-429-11	CARBON	10K	5%	1/4W	
R635	1-249-421-11	CARBON	2.2K	5%	1/4W	
R636	1-249-429-11	CARBON	10K	5%	1/4W	
R637	1-249-429-11	CARBON	10K	5%	1/4W	
R638	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R639	1-247-895-91	CARBON	470K	5%	1/4W	
R640	1-249-417-11	CARBON	1K	5%	1/4W	
R641	1-249-429-11	CARBON	10K	5%	1/4W	
R642	1-249-425-11	CARBON	4.7K	5%	1/4W	
R643	1-218-642-11	METAL OXIDE	100K	5%	1W	F
R644	1-215-904-11	METAL OXIDE	100K	5%	2W	F
R645	1-249-429-11	CARBON	10K	5%	1/4W	F
R647	1-249-429-11	CARBON	10K	5%	1/4W	
R648	1-249-429-11	CARBON	10K	5%	1/4W	
R649	1-249-429-11	CARBON	10K	5%	1/4W	
R650	1-249-389-11	CARBON	4.7	5%	1/4W	
R651	1-249-413-11	CARBON	470	5%	1/4W	F
R652	1-215-481-00	METAL	330K	1%	1/4W	
R653	1-247-791-91	CARBON	22	5%	1/4W	
R654	1-215-461-00	METAL	47K	1%	1/4W	
R655	1-216-344-00	METAL OXIDE	0.39	5%	1W	F
R656	1-260-127-11	CARBON	220K	5%	1/2W	
R657	1-533-590-11	RINK, IC				
R658	1-260-127-11	CARBON	220K	5%	1/2W	
R659	1-249-389-11	CARBON	4.7	5%	1/4W	
R660	1-260-288-11	CARBON	0.47	5%	1/2W	
R663	1-215-469-00	METAL	100K	1%	1/4W	
R664	1-247-791-91	CARBON	22	5%	1/4W	
R665	1-249-429-11	CARBON	10K	5%	1/4W	
R668	1-249-393-11	CARBON	10	5%	1/4W	F
R669	1-249-391-11	CARBON	6.8	5%	1/4W	
R670	1-249-393-11	CARBON	10	5%	1/4W	F
R671	1-247-863-91	CARBON	22K	5%	1/4W	
R672	1-249-411-11	CARBON	330	5%	1/4W	
R673	1-249-429-11	CARBON	10K	5%	1/4W	
R674	1-247-863-91	CARBON	22K	5%	1/4W	
R675	1-215-451-00	METAL	18K	1%	1/4W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

The components identified by ⊠ in this manual have been carefully factory-selected for eachset in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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REF.NO.	PART NO.	DESCRIPTION			REMARK
R676	1-215-403-00	METAL	180	1% 1/4W	
R677	1-217-418-61	FUSIBLE	0.47	10% 1/2W	F
R678	1-215-419-00	METAL	820	1% 1/4W	
R679	1-215-433-00	METAL	3.3K	1% 1/4W	
R680	1-247-815-91	CARBON	220	5% 1/4W	
R681	1-247-891-00	CARBON	330K	5% 1/4W	
R682	1-249-425-11	CARBON	4.7K	5% 1/4W	
R683	1-249-429-11	CARBON	10K	5% 1/4W	
R685	1-247-891-00	CARBON	330K	5% 1/4W	
R686	1-247-891-00	CARBON	330K	5% 1/4W	
R687	1-249-391-11	CARBON	6.8	5% 1/4W	
R688	1-247-891-00	CARBON	330K	5% 1/4W	
R690	1-247-863-91	CARBON	22K	5% 1/4W	
R691	1-260-083-11	CARBON	47	5% 1/2W	
R692	1-218-191-11	METAL OXIDE	0.1	5% 1W	F
R693	1-218-191-11	METAL OXIDE	0.1	5% 1W	F
R694	1-249-421-11	CARBON	2.2K	5% 1/4W	
R695	1-249-441-11	CARBON	100K	5% 1/4W	
R696 ⚠	1-202-914-91	SOLID	390K	20% 1/2W	
R701	1-249-381-11	CARBON	1	5% 1/4W	F
R702	1-215-863-11	METAL OXIDE	100	5% 1W	F
R703	1-249-385-11	CARBON	2.2	5% 1/4W	
R704	1-249-425-11	CARBON	4.7K	5% 1/4W	
R705	1-249-431-11	CARBON	15K	5% 1/4W	
R707	1-249-425-11	CARBON	4.7K	5% 1/4W	
R708	1-249-417-11	CARBON	1K	5% 1/4W	
R709	1-216-341-11	METAL OXIDE	0.22	5% 1W	F
R710	1-215-445-00	METAL	10K	1% 1/4W	
R711	1-215-465-00	METAL	68K	1% 1/4W	
R712	1-215-463-00	METAL	56K	1% 1/4W	
R713	1-215-861-00	METAL OXIDE	47	5% 1W	F
R714	1-215-445-00	METAL	10K	1% 1/4W	
R715	1-215-445-00	METAL	10K	1% 1/4W	
R716	1-215-457-00	METAL	33K	1% 1/4W	
R717	1-249-417-11	CARBON	1K	5% 1/4W	
R718	1-249-421-11	CARBON	2.2K	5% 1/4W	
R719	1-249-385-11	CARBON	2.2	5% 1/4W	
R720	1-249-381-11	CARBON	1	5% 1/4W	F
R721	1-249-417-11	CARBON	1K	5% 1/4W	
R722	1-249-417-11	CARBON	1K	5% 1/4W	
R723	1-249-417-11	CARBON	1K	5% 1/4W	
R724	1-215-864-00	METAL OXIDE	150	5% 1W	F
R725	1-249-417-11	CARBON	1K	5% 1/4W	
R727	1-215-443-00	METAL	8.2K	1% 1/4W	
R728	1-215-485-00	METAL	470K	1% 1/4W	
R729	1-249-437-11	CARBON	47K	5% 1/4W	
R731	1-249-417-11	CARBON	1K	5% 1/4W	
R734	1-215-909-11	METAL OXIDE	47	5% 3W	F
R735	1-249-437-11	CARBON	47K	5% 1/4W	
R736	1-249-437-11	CARBON	47K	5% 1/4W	
R737	1-249-437-11	CARBON	47K	5% 1/4W	
R738	1-249-437-11	CARBON	47K	5% 1/4W	
R741	1-215-413-00	METAL	470	1% 1/4W	
R742	1-249-437-11	CARBON	47K	5% 1/4W	
R802	1-247-843-11	CARBON	3.3K	5% 1/4W	
R804	1-249-413-11	CARBON	470	5% 1/4W	
R809	1-249-415-11	CARBON	680	5% 1/4W	
R1401	1-249-425-11	CARBON	4.7K	5% 1/4W	
R1402	1-249-429-11	CARBON	10K	5% 1/4W	
R1403	1-249-421-11	CARBON	2.2K	5% 1/4W	
R1404	1-249-417-11	CARBON	1K	5% 1/4W	
R1405	1-249-429-11	CARBON	10K	5% 1/4W	
R1406	1-249-429-11	CARBON	10K	5% 1/4W	
R1407	1-249-417-11	CARBON	1K	5% 1/4W	
R1409	1-247-895-91	CARBON	470K	5% 1/4W	
R1410	1-249-429-11	CARBON	10K	5% 1/4W	
R1411	1-247-807-31	CARBON	100	5% 1/4W	
R1412	1-247-807-31	CARBON	100	5% 1/4W	
R1417	1-215-409-00	METAL	330	1% 1/4W	
R1600	1-249-401-11	CARBON	47	5% 1/4W	
R1601	1-249-437-11	CARBON	47K	5% 1/4W	
R1602	1-249-429-11	CARBON	10K	5% 1/4W	
R1603	1-249-429-11	CARBON	10K	5% 1/4W	
R1604	1-247-863-91	CARBON	22K	5% 1/4W	
R1605	1-260-085-11	CARBON	68	5% 1/2W	
R1609	1-249-429-11	CARBON	10K	5% 1/4W	
R1610	1-249-429-11	CARBON	10K	5% 1/4W	
R1611 ⚠	1-205-998-11	WIREWOUND	1	5% 10W	
R1701	1-215-485-00	METAL	470K	1% 1/4W	
		<VARIABLE RESISTOR>			
⊠ RV401 ⚠	1-241-766-21	RES, ADJ, CERMET		47K (HV ADJ)	
RV601	1-241-761-11	RES, ADJ, CERMET		1K (-B)	
		<RELAY>			
RY401	1-755-137-11	RELAY			
RY685 ⚠	1-515-849-11	RELAY			
RY686 ⚠	1-755-128-11	RELAY			
		<SPARK GAP>			
SG701	1-519-422-11	GAP, SPARK			
SG702	1-517-538-11	GAP, SPARK			
		<SWITCH>			
SW600	1-571-433-21	SWITCH, PUSH (AC POWER)			
		<TRANSFORMER>			
T401	1-429-303-11	TRANSFORMER, FERRITE (HDT)			
T403	1-426-998-11	TRANSFORMER, FERRITE (HST)			
T404 ⚠	X-4033-530-1	TRANSFORMER ASSY, FLYBACK			(NX-4140/J1A4)
T410	1-429-301-11	TRANSFORMER, FERRITE (HCT)			
T601	1-429-326-11	TRANSFORMER, CONVERTER (PIT)			
T602	1-411-593-11	COIL, CHOKE 85UF			
T603	1-429-212-11	TRANSFORMER, CONVERTER (PIT)			
T604	1-427-864-11	TRANSFORMER, CONVERTER (PRT)			
	* 4-051-892-01	CASE, SHIELD (D1) ; T604			
T605	1-427-864-11	TRANSFORMER, CONVERTER (PRT)			

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The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
T686	⚠1-429-180-11	TRANSFORMER, LINE FILTER	
T701	1-423-854-11	TRANSFORMER, FERRITE (DFT)	
T1402	1-423-405-12	TRANSFORMER, FERRITE (FRT)	
		<THERMISTOR>	
TH601	⚠1-809-260-11	THERMISTOR, POWER	
TH701	1-807-796-11	THERMISTOR	
THP685	⚠1-809-827-11	THERMISTOR, POSITIVE	
		<VARISTOR>	
VDR685	⚠1-801-268-31	VARISTOR TNR14V471K660	
VDR686	⚠1-810-622-11	VARISTOR	
VDR687	1-810-974-21	VARISTOR TNR10V431K660	
		**********	
*	8-933-167-00	H2 BOARD, COMPLETE	
		**********	
	4-041-624-01	HOLDER (H1), LED (D1906, D1907)	
		<CONNECTOR>	
CN1904	1-564-511-11	PLUG, CONNECTOR 8P	
		<DIODE>	
D1906	8-719-045-19	DIODE SPB-26MVWF	
D1907	8-719-311-90	DIODE SEL1922D-C	
		<TRANSISTOR>	
Q1905	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1906	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1907	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		<RESISTOR>	
R1905	1-215-413-00	METAL 470 1% 1/4W	
R1907	1-215-409-00	METAL 330 1% 1/4W	
R1908	1-215-413-00	METAL 470 1% 1/4W	
R1910	1-215-413-00	METAL 470 1% 1/4W	
R1912	1-215-417-00	METAL 680 1% 1/4W	
R1914	1-215-421-00	METAL 1K 1% 1/4W	
R1916	1-215-425-00	METAL 1.5K 1% 1/4W	
R1917	1-249-413-11	CARBON 470 5% 1/4W	
R1918	1-215-425-00	METAL 1.5K 1% 1/4W	
R1919	1-249-411-11	CARBON 330 5% 1/4W	
R1920	1-249-413-11	CARBON 470 5% 1/4W	
R1921	1-215-433-00	METAL 3.3K 1% 1/4W	
R1922	1-215-469-00	METAL 100K 1% 1/4W	

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<SWITCH>	
S1904	1-692-431-21	SWITCH, TACTIL (CONT+)	
S1905	1-692-431-21	SWITCH, TACTIL (CONT-)	
S1906	1-692-431-21	SWITCH, TACTIL (CENT)	
S1907	1-692-431-21	SWITCH, TACTIL (SIZE)	
S1908	1-692-431-21	SWITCH, TACTIL (GEON)	
S1909	1-692-431-21	SWITCH, TACTIL (CONV)	
S1910	1-692-431-21	SWITCH, TACTIL (OPTION)	
S1911	1-692-431-21	SWITCH, TACTIL (RESET)	
S1921	1-762-093-11	SWITCH, TACTILE (BRT+-)	
		**********	
*	8-933-155-00	N BOARD, COMPLETE	
		**********	
		(300SFT U/C for USA-made set, 300SFT5)	
*	8-933-212-00	N BOARD, COMPLETE	
		**********	
		(300SFT U/C for Japan-made set, AUS, ES)	
		<CAPACITOR>	
C901	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C902	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C903	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C904	1-164-182-11	CERAMIC CHIP 0.0033MF 10% 50V	
C905	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C906	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C907	1-126-301-11	ELECT 1MF 20% 50V	
C908	1-163-235-11	CERAMIC CHIP 22pF 5% 50V	
C909	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
C910	1-124-635-00	ELECT 220MF 20% 6.3V	
C911	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C912	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C913	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
C915	1-163-235-11	CERAMIC CHIP 22pF 5% 50V	
C916	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C917	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
C922	1-136-621-11	FILM 0.1MF 5% 50V	
C923	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C925	1-104-957-11	ELECT 47MF 20% 16V	
C930	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C932	1-137-372-11	FILM 0.022MF 5% 50V	
C933	1-163-251-11	CERAMIC CHIP 100pF 5% 50V	
C934	1-137-375-11	FILM 0.068MF 5% 50V	
C935	1-124-635-00	ELECT 220MF 20% 6.3V	
C936	1-104-396-11	ELECT 10MF 20% 16V	
C937	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C953	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C958	1-126-022-11	ELECT 47MF 20% 25V	
C959	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C963	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C964	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C965	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C966	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C967	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	

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REF.NO.	PART NO.	DESCRIPTION			REMARK
C968	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C969	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C970	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C971	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C972	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C973	1-126-789-11	ELECT	33MF	20%	25V
C974	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C976	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C977	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C978	1-124-257-00	ELECT	2.2MF	20%	50V
C979	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C980	1-163-113-00	CERAMIC CHIP	68pF	5%	50V
C981	1-164-222-11	CERAMIC CHIP	0.22MF		25V
C982	1-137-370-11	FILM	0.01MF	5%	50V
C984	1-124-455-00	ELECT	100MF	20%	16V
C985	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C986	1-136-621-11	FILM	0.1MF	5%	50V
C987	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C988	1-126-022-11	ELECT	47MF	20%	25V
C990	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C991	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C992	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C993	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C994	1-124-635-00	ELECT	220MF	20%	6.3V
C995	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C996	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C997	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C998	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C999	1-163-235-11	CERAMIC CHIP	22pF	5%	50V
C1000	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1001	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1019	1-163-038-91	CERAMIC CHIP	0.1MF		25V

<CONNECTOR>

CN910*	1-774-590-11	CONNECTOR, BOARD TO BOARD	20P
CN911*	1-774-590-11	CONNECTOR, BOARD TO BOARD	20P
CN912*	1-774-590-11	CONNECTOR, BOARD TO BOARD	20P

<DIODE>

D901	8-719-404-49	DIODE MA111
D902	8-719-404-49	DIODE MA111
D903	8-719-404-49	DIODE MA111
D904	8-719-404-49	DIODE MA111
D905	8-719-404-49	DIODE MA111
D906	8-719-404-49	DIODE MA111
D907	8-719-404-49	DIODE MA111
D908	8-719-404-49	DIODE MA111
D909	8-719-404-49	DIODE MA111
D917	8-719-404-49	DIODE MA111
D920	8-719-976-96	ZENER DIODE DTZ4.7C

<FERRITE BEAD>

FB013	1-414-386-11	INDUCTOR, FERRITE BEAD
FB901	1-412-911-11	INDUCTOR, FERRITE BEAD

<IC>

IC901	8-759-182-62	IC CXD8478Q
IC902	8-759-156-55	IC CD74HC4046AM
IC903	8-759-162-80	IC MM1170BFB
IC904	8-759-445-19	IC HD6433337WA14H
IC905	8-759-981-48	IC TL082M
IC906	8-759-100-96	IC UPC4558G2
IC907	8-759-353-44	IC ST24C08FM6TR
IC908	8-759-008-67	IC MC14066BF
IC909	8-759-981-48	IC TL082M
IC911	8-759-925-90	IC SN74HC74ANS
IC912	8-759-925-72	IC SN74HC02ANS
IC913	8-759-191-50	IC TDA9102C

<COIL>

L905	1-410-645-31	INDUCTOR	100UH

<TRANSISTOR>

Q901	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q902	8-729-216-22	TRANSISTOR 2SA1162-G
Q903	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q904	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q905	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q907	8-729-120-28	TRANSISTOR 2SC1623-L5L6
Q908	8-729-027-52	TRANSISTOR DTC124EKA-T146
Q909	8-729-027-52	TRANSISTOR DTC124EKA-T146
Q910	8-729-232-13	TRANSISTOR 2SK1078
Q911	8-729-027-52	TRANSISTOR DTC124EKA-T146
Q912	8-729-120-28	TRANSISTOR 2SC1623-L5L6

<RESISTOR>

R900	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R901	1-218-764-11	METAL CHIP	330K	0.50%	1/10W
R902	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R903	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R904	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W
R905	1-216-025-91	METAL GLAZE	100	5%	1/10W
R906	1-216-682-11	METAL CHIP	20K	0.50%	1/10W
R907	1-218-760-11	METAL CHIP	220K	0.50%	1/10W
R908	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R909	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R910	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
R911	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R912	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R913	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R914	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R915	1-216-037-00	METAL GLAZE	330	5%	1/10W

N

REF.NO.	PART NO.	DESCRIPTION			REMARK
R916	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R917	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R918	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R919	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R920	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R921	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R922	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R923	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R924	1-216-037-00	METAL GLAZE	330	5%	1/10W
R925	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R926	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R927	1-249-393-11	CARBON	10	5%	1/4W F
R928	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R929	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R930	1-208-771-11	METAL CHIP	360	0.50%	1/10W
R931	1-216-682-11	METAL CHIP	20K	0.50%	1/10W
R932	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R933	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R934	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R935	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R936	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R937	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R938	1-208-803-11	METAL CHIP	7.5K	0.50%	1/10W
R939	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
R940	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R941	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R942	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R943	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R944	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R945	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R946	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R947	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R948	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R949	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R950	1-216-694-11	METAL CHIP	62K	0.50%	1/10W
R951	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W
R952	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R953	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R954	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R955	1-216-033-00	METAL GLAZE	220	5%	1/10W
R956	1-216-697-91	METAL CHIP	82K	0.50%	1/10W
R957	1-216-117-00	METAL GLAZE	680K	5%	1/10W
R958	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R960	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R961	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R962	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R964	1-208-771-11	METAL CHIP	360	0.50%	1/10W
R965	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R966	1-216-117-00	METAL GLAZE	680K	5%	1/10W
R971	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R973	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R974	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R975	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R976	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W
R977	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R978	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R979	1-216-037-00	METAL GLAZE	330	5%	1/10W
R981	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R982	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R983	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R985	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R986	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R987	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R988	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R989	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R990	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R991	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R992	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R993	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R994	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R995	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R996	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R997	1-218-758-11	METAL CHIP	180K	0.50%	1/10W
R998	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R999	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1000	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1001	1-216-295-91	CONDUCTOR, CHIP			
R1002	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1003	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1004	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1005	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R1006	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1007	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1008	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1009	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1010	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1011	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R1012	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R1013	1-216-689-11	METAL CHIP	39K	0.50%	1/10W
R1014	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1015	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1016	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1017	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1018	1-216-295-91	CONDUCTOR, CHIP		-2012	
R1020	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1021	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R1022	1-208-810-11	METAL CHIP	15K	0.50%	1/10W
R1023	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R1024	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R1025	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R1026	1-208-814-11	METAL CHIP	22K	0.50%	1/10W
R1027	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1028	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1029	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W
R1030	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1031	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1032	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1033	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1034	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1035	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1036	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1037	1-216-073-00	METAL GLAZE	10K	5%	1/10W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

N

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1038	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
		<CRYSTAL>	
X901	1-577-076-11	VIBRATOR, CRYSTAL	

****

MISCELLANEOUS
****

⚠1-251-382-22 INLET, AC 3P (WITH NOISE FILTER) (except 300SFT U/C for Japan-made set)
⚠1-251-411-11 INLET, AC 3P (300SFT U/C for Japan-made set)
⚠1-406-790-71 COIL, DEMAGNETIZATION
⚠1-451-438-12 DEFLECTION YOKE,TRINTRON COLOR
1-694-062-11 TERMINAL BOARD ASSY, I/O

⚠1-556-481-12 CORD SET, POWER 10/250V (300SFT AUS)
⚠1-765-717-11 CORD SET, POWER 10A/250V (300SFT5 AEP)
⚠1-765-718-11 CORD SET, POWER 10A/125V (300SFT U/C, ES)
⚠1-775-706-11 CORD SET, POWER (300SFT5 UK)
1-774-332-11 ADAPTOR (for Macintosh, with SW) (300SFT U/C for Japan-made set Ser.No. 2,100,001~2,100,200)

1-573-983-31 ADAPTOR (for Macintosh, without SW) (300SFT U/C for Japan-made set Ser.No. 2,100,201 and later)
1-774-626-11 ADAPTOR (for Macintosh, with SW) (300SFT5)
1-774-648-21 ADAPTOR (for VGA) (300SFT5)
1-777-743-11 CABLE ASSY (15P DSUBX2 CONNECTOR)
⚠8-453-006-21 NECK ASSY, PICTURE TUBE (NA3013-M2)

V901 ⚠8-736-131-05 PICTURE TUBE (20SPG) (except 300SFT AUS)
V901 ⚠8-736-132-05 PICTURE TUBE (20SPG (S)) (300SFT AUS)
⚠8-736-131-91 ITC ASSY (20SPG-R1) (except 300SFT AUS)
⚠8-736-132-91 ITC ASSY (20SPG-RS1) (300SFT AUS)

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Quality Engineering Dept.

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